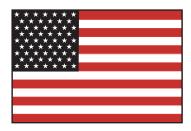




# ADVISORY CIRCULAR 43–16A

# AVIATION MAINTENANCE ALERTS







JULY 2002

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# U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, DC 20590

# **AVIATION MAINTENANCE ALERTS**

The Aviation Maintenance Alerts provide a common communication channel through which the aviation community can economically interchange service experience and thereby cooperate in the improvement of aeronautical product durability, reliability, and safety. This publication is prepared from information submitted by those who operate and maintain civil aeronautical products. The contents include items that have been reported as significant, but which have not been evaluated fully by the time the material went to press. As additional facts such as cause and corrective action are identified, the data will be published in subsequent issues of the Alerts. This procedure gives Alerts' readers prompt notice of conditions reported via Malfunction or Defect Reports. Your comments and suggestions for improvement are always welcome. Send to: FAA; ATTN: Designee Standardization Branch (AFS-640); P.O. Box 25082; Oklahoma City, OK 73125-5029.

### **AIRPLANES**

#### **BEECH**

Beech; Model E18S; Poor Engine Operation; ATA 7160

After returning from a flight, the pilot reported a loss of engine power on the left engine. At the time, he believed the problem to be carburetor ice and applied heat to no avail.

A technician found the carburetor airbox (P/N 404-189181-9) was worn excessively. With only slight hand pressure, he could push the air door up approximately .5 inch. Although the specific location was not given, he stated the wear was concentrated at a "weld assembly" on the carburetor airbox.

Part time since overhaul was 1,357 hours.

#### Beech; Model F33A; Bonanza; Instrument Air System Failure; ATA 3700

After returning from a flight, the pilot reported the instrument air pressure (vacuum) went to "zero" just after takeoff.

A technician discovered the vacuum pump (Rapco P/N RA216CW) drive shaft was sheared. The FAA Service Difficulty Program data base contains six additional reports of drive shaft failure on this vacuum air pump. Two of the six failures occurred in August 2000, and the other four occurred this year. The lowest operating time before failure in the seven reports was 50 hours and the highest was 574 hours. None of the seven total reports gave a cause for the drive shaft failure.

The submitter suggested that all concerned personnel should be aware of these findings and exercise extreme caution especially while operating in instrument meteorological conditions (IMC).

Part total time-574 hours.

#### Beech; Model E-35; Bonanza; Defective Air/Oil Separator; ATA 8500

After performing an engine-operational test to locate an oil leak, the technician noticed oil coming from the air/oil separator.

It appeared the oil was leaking from the lower outboard corner of the air/oil separator (Beryl D'Shannon P/N B-1119-M). The technician discovered that oil was leaking through corrosion pits and into the exhaust port. He disassembled the unit and found severe corrosion inside the unit.

The submitter recommended the air/oil separator be disassembled and thoroughly inspected for corrosion during each annual inspection.

Part total time-1,291 hours.

### Beech; Model M-35; Bonanza; Landing Gear Failure; ATA 3230

During a landing approach, the landing gear failed to fully extend when the pilot placed the selector in the "down" position. At the same time, he lost electrical power. The landing gear could not be locked "down," and the gear collapsed during landing.

The technician discovered the aircraft battery had very low voltage, no capacity, and was shorted internally. Also, he discovered the "FIELD" circuit breaker was open.

After installing a new battery, resetting the "FIELD" circuit breaker, and repairing a bent gear push/pull rod, all the aircraft systems functioned properly.

Part total time not reported.

### Beech; Model 58P; Baron; Engine Oil System Leakage; ATA 7930

During a postflight inspection, a technician noticed engine oil dripping from the left wing root area.

The technician removed the wing leading edge and discovered oil was coming from the aluminum line (P/N 102-320001-9) carrying pressure to the cockpit indicator. The line had chafed through the wall thickness from contact with the inboard leading edge fairing rib (P/N 102-100026-602). He inspected another like aircraft and found chafing damage in the same location.

The submitter recommended all operators of like aircraft inspect the oil pressure line, at the inboard end where it attaches to the fuselage bulkhead fitting, for evidence of contact with the adjacent structure.

Part total time-5,117 hours.

### Beech; Model 200; King Air; Improper Passenger Restraint Installation; ATA 2520

While installing a replacement passenger restraint assembly, a technician discovered all four installations were incorrect.

The seatbelt/shoulder harness assembly (P/N 128-380071-23) at one position was missing the lapbelt assembly mount locking spacers (P/N 102-530072-21). The lapbelt installation was loose at the mounting

bolts. After checking the other three passenger restraint systems, the technician discovered they were all missing the lapbelt mount locking spacers.

The submitter suggested that all operators of like equipment inspect each passenger seat assembly for correct installation and the presence of the locking spacers.

Part total time-419 hours.

#### Beech; Model 200; King Air; Pressure Bulkhead Structural Defect; ATA 5312

While complying with the requirements of a 10,000-cycle inspection, the technician discovered the aft pressure bulkhead was defective.

The aft pressure bulkhead upper web (P/N 101-440098-11) had two horizontal scratches. The scratches were approximately 1.5 inches apart, were .006 inch deep, and were located on the forward side of the bulkhead. The scratch depth exceeded the allowable limit and required the installation of a patch in accordance with the manufacturer's technical data.

The submitter stated the horizontal scratches were caused by cutting too deep along the edges of the center interior trim extrusion while cutting and installing carpet. A little time and precaution here would have prevented a costly repair and the possibility of failure of the pressure vessel.

Aircraft total time-7,158 hours.

#### Beech; Model 200; King Air; Flight Control Defect; ATA 5513

While conducting a scheduled corrosion inspection, which required removal of the right elevator, the technician found collateral damage.

After removing the elevator, the technician discovered the bushing, installed in the end of the tab actuator (P/N 101-524072-1), was very loose on the shaft. (Refer to the illustration.) Failure of this bushing presents the possibility of trim tab flutter and/or restriction of the tab travel.

The submitter recommended the manufacturer consider the implementation of a procedure to lock the bushing in place by using a roll pin or other suitable device to hold the bushing in place. He suggested that all operators of like aircraft conduct a one-time inspection of the bushing and elevator trim tab assembly for security and condition.

Part total time-3,246 hours.



#### Beech; Model 200; King Air; Tire Defect; ATA 3244

After returning from a flight, the crew reported experiencing a severe vibration coming from the nose section following retraction of the landing gear.

The technician investigated the cause of the vibration and found that a "balance patch" in a nose gear tire (P/N 265F86-4 22X6.75-10) had come loose. The loose balance patch produced a severe imbalance in the nose tire causing the vibration when the tire was spinning down after retraction.

The submitter recommended closely inspecting the security of the tire balance patches at every opportunity.

Part total time-100 hours.

#### Beech; Model 1900C; Airliner; Defective Main Landing Gear Tire; ATA 3244

During a postflight inspection, a technician discovered a main landing gear tire was defective.

The inboard right main gear tire (Goodyear 22X6.75-10 P/N 365K08-1) had a section of the tread approximately 16 inches by 5 inches missing. Apparently, the tire tread separated during the previous landing. It was evident that the section of tire tread impacted the right inboard wing flap segment causing damage to the flap, nacelle, fairing, lower aft wing skin, and the trailing edge rib.

It appeared the tread separation occurred in a cord layer and not in the recap bond area.

Part total usage-850 hours and landings since recap-987.

#### **CESSNA**

Cessna; Models 120, 140, 150, 152, 170, 172, 175, 177, 180, 182, 185, 188, 190, 195, 205, 206, 207, 208, 210, 305, 336, 337; Flat or Tubular MLG Springs; Main Landing Gear Fatigue; ATA 3213

The following article was submitted by the FAA, Aircraft Certification Office (ACE-118W) located in Wichita, Kansas. For further information on this subject refer to the August 2001 edition of this publication (pages 5 and 6). (This article appears as it was received.)

Cessna main landing gear (MLG) springs, with either flat solid or round tubular cross sections, are fabricated from high strength steel. Both the flat and tubular springs are shot-peened on the lower surface to increase the number of stress cycles that they can sustain. The shot-peened layer is between 0.010 and 0.020 thick. If the protective layer of paint is chipped or scratched or worn away, the steel may corrode (rust). If the corrosion pits exceed the shot-peened thickness, the fatigue life is greatly reduced. Therefore, it is important to maintain the protective coating on these springs. Annual or 100-hour inspections should include an examination of the finish for chips or scratches or other damage that could allow corrosion to begin. Obviously, operation from unimproved surfaces will increase the likelihood of damage.

When aircraft are operated on skis, the loads increase in the lower portion of the spring because of unsymmetrical and twisting loads caused by the skis. Such load increases also occur on aircraft that operate on unpaved surfaces typical to agricultural operation. These increased loads can produce spring fractures originating from corrosion pits in the axle attach holes. These attach holes

need to be examined for corrosion any time the axle bolts are removed. Since the inside of the holes is not shot-peened, there is no acceptable damage depth. This is because fatigue cracks that will produce failure are very small (0.003 to 0.005 in.).

Detailed guidance for removal and replacement of landing gear axles and springs is found in the Cessna Maintenance Manuals. New information has been added to the latest revision of Cessna Model 206/T206 Series 1998 and in Maintenance Manual Number 206HMM06, Chapter/Section/Subject 32-10-00, Revision Number 6, pages 199-210. This new information is useful for the other Cessna models identified in this article.

# Cessna; Engine Fuel Strainers (GASCOLATORS); Inspection/Assembly Errors on Current Production Cessna Single-Engine Airplanes

This article was submitted for publication by the FAA, Aircraft Certification Office (ACO) located in Wichita, Kansas. (*This article appears as it was received.*)

The FAA has recently been advised that engine fuel strainers are failing at an increasing rate. These failures are being reported as a result of routine inspections of these components during the maintenance schedules prescribed by the airframe manufacturers. It is strongly recommended that maintenance personnel exhibit care when reassembling the threaded gascolator/fuel strainer standpipe into the fuel strainer housing after internal inspections of these components. The standpipe should be replaced if the standpipe threads are damaged or there is an insufficient number or threads. The current configurations of fuel strainer standpipe have an increased number of threads.

The prior configuration standpipes, which are currently installed, may be acceptable. Satisfactory thread condition with acceptable thread engagement is required for the standpipe to be acceptable when reassembled. It is also necessary that the bottom nut be secured as shown in all of the maintenance manuals with safety wire at the base of the fuel strainer.

#### Cessna; Model T210N; Centurion; Landing Gear Collapse; ATA 3230

During an afterlanding rollout, the left main landing gear collapsed.

Maintenance personnel recovered the aircraft from the runway and placed it in a hangar for inspection and repair. While testing the gear system, a technician discovered the landing gear powerpack was inoperative. An electrical wire in the nose wheel well had been cut. The cut wire and the remaining electrical wiring for the nose gear down lock switch were misrouted. Evidently, the wire was cut by being in the wrong location during the gear-retraction cycle.

It was recommended that technicians exercise care when routing all electrical wiring to ensure the wiring is properly secured and does not interfere with moving parts.

Part total time not reported.

#### Cessna; Model 310R; Flight Control Cable Damage; ATA 2710

During a scheduled inspection, a technician discovered the aileron control cables were severely damaged.

All four cables had broken strands and had to be replaced. The left forward carry-through cable had approximately 70 percent of the cable strands broken where they contacted the pulley guard. Also, the cables were rubbing against the "Phenolic" blocks where the cables exited the fuselage.

The submitter stated the left forward cable guard was incorrectly installed and caused the damage to the cable. He recommended inspecting all flight-control cables for freedom of movement and condition during scheduled inspections. Also, he recommended setting a life limit for cable replacement.

Part total time-1,950 hours.

### Cessna; Model 336; Skymaster; Wing Flap Problem; ATA 2750

The pilot reported that during a landing approach, he experienced a "split flap" condition. He was able to regain control of the aircraft and land safely.

The technician inspected the flap system and discovered a control cable (P/N 1460100-7) was broken. The break occurred adjacent to the flap actuator inboard bellcrank on the right side approximately 1 inch from the end of the cable. Due to this finding, he inspected the cable assembly for the left wing flap. Using a flashlight and mirror, he could not find the damage to the cable. He removed all the flap cables and discovered they were severely corroded, frayed, the strands were brittle, and were in danger of failure.

The location of the flap cable damage makes detection of damage impossible without removing the cables. The submitter recommended removing the cables and inspecting them closely at regular and frequent intervals.

Part total time-2,893 hours.

#### Cessna; Model T337F; Turbo Skymaster; Landing Gear System Failure; ATA 3230

While investigating an aircraft landing accident, the pilot stated all of his efforts to extend the nose landing gear failed. He landed the aircraft without the aid of the nose gear.

The inspector discovered the nose landing gear extension/retraction hydraulic hoses were replaced with "newly fabricated" hoses approximately 8 operating hours prior to this event. A test of the nose gear system revealed a restriction in the system that prevented the flow of hydraulic fluid. After removing the orifice and filter assembly, he found rubber particles trapped in the orifice and obstructing fluid flow. There were also rubber particles in the filter and throughout the system.

It was obvious that the rubber particles had come from the "newly fabricated" and installed hydraulic lines. The lines were probably not purged prior to installation.

Part total time-8 hours.

#### Cessna; Model U206F; Stationair; Wheel Brake Failure; ATA 3242

After completing a preflight inspection, the pilot started the engine and began taxiing when the right wheel brake failed. The aircraft veered to the left before he could regain control and stop the aircraft.

A technician discovered the right brake caliper (P/N C163032-0208) had failed. Also, at the previous parking spot, he found a large puddle of brake fluid where the right main tire was. He suggested the pilot should have detected the puddle of brake fluid during his preflight inspection.

Allowing adequate time and expending the effort required for a proper preflight inspection should prevent this type of incident.

Part total time not reported.

### Cessna; Model 402C; Businessliner; Landing Gear Failure; ATA 3213

After takeoff, the pilot experienced difficulty retracting the landing gear. He elected to return to the departure airport and made a normal landing. However, the right main landing gear collapsed when he was taxiing to the parking ramp.

Maintenance personnel inspected the aircraft and found the upper barrel (P/N 5141103-14) of the right main gear strut assembly was broken at the actuator attachment collar.

While interviewing the flightcrew and examining the evidence, the technician concluded the landing gear strut was flat during takeoff, extended fully after takeoff, bottomed out on landing, and broke while taxiing.

The submitter stated that proper strut inflation would prevent this type of defect. He suggested that all personnel check the gear struts for proper inflation at every opportunity.

Part total time-5,000 hours.

#### Cessna; Model 550; Citation; Electrical System Problem; ATA 2421

The aircraft was brought to the maintenance shop with a report of an ammeter split between the left and right engine generators.

Investigating this report, a technician discovered a loose generator ground cable bolt. After removing the bolt, he found the bolt (P/N AN6-10A) was too long and ran out of threads before tightening. The correct bolt (P/N AN6-6A) provided a tight installation and cured the problem.

The submitter reported finding the same problem on several other aircraft including Model 560 Citations.

Part total time-130 hours.

#### Cessna; Model 750; Citation; Elevator Hinge Damage; ATA 5520

While conducting a scheduled inspection, a technician discovered cracks in the elevator hinges.

Both inboard elevator hinge assemblies (P/N 6732030) were cracked. The hinge assemblies are attached to the horizontal stabilizer and are located at the inboard ends of each elevator. Each crack was approximately .02 inch long and was in the upper aft end of the hinge fittings.

The submitter suggested that technicians check these hinges closely during scheduled inspections.

Part total time-2,452 hours.

#### **CIRRUS**

#### Cirrus; Model SR-22; Engine-Mount Frame Tube Damage; ATA 7120

During a scheduled inspection, a technician discovered that an engine-mount frame tube was damaged.

An "Adel" clamp, used to support a fuel line, chafed the engine-mount tube. The rubber cushion on the "Adel" clamp had worn through and allowed the metal band to contact the tube. This damage was located on the lower aft section of the engine mount frame. The chafing damage wore into the mount tube approximately .006 inch requiring replacement of the engine-mount assembly.

The submitter reported finding this chafing damage on both the left and right sides of the lower aft engine-mount frame. He found this discrepancy on two other like aircraft, although the damage was not as severe as in this case. It appears the "Adel" clamp is too long, allowing it to contact the engine-mount tube. After changing the engine-mount assembly, he shortened the clamp attachment bracket to prevent a recurrence of this defect. He recommended that the engine-mount frame assembly on all like aircraft be inspected closely for evidence of chafing.

The aircraft manufacturer issued Service Bulletin (SB) 22-28-01, dated December 17, 2001, which offers a new clamp-support bracket and reroutes the fuel line to alleviate this problem.

Part total time-101 hours.

#### **MOONEY**

#### Mooney; Model M20J; Defective Landing Gear Component; ATA 3230

While investigating a landing gear collapse incident, an investigator determined the landing gear actuator failed.

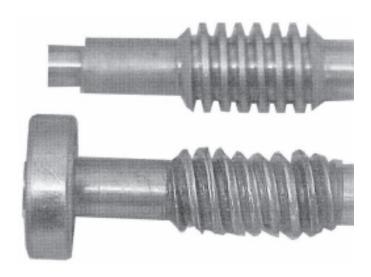
The electric landing gear actuator (Dukes P/N 1057-00-05) was removed and sent to a certified repair station for evaluation. The disassembly and evaluation was done in the presence of an FAA Airworthiness Inspector and repair station personnel. This resulted in finding that the actuator worm shaft

gear teeth (or threads) were worn far beyond acceptable limits. The worm shaft was subjected to a Rockwell hardness test that revealed the shaft material was not hardened (too soft) to the proper specifications. (Refer to the illustration, which compares the worm shaft to a new part.)

This landing gear collapse incident occurred a short time after the worm gear assembly was replaced in accordance with Airworthiness Directive (AD) 75-23-04. The AD references Mooney Service Bulletin (SB) M20-190. Also, Mooney SB M20-189 contains additional information on this subject.

The submitter recommended revising the AD to include removing the actuator gears to allow a visual inspection of the parts for excessive wear that may not be apparent from a "gear backlash" test.





#### **PIPER**

#### Piper; Model PA 24-250; Comanche; Nose Gear Failure; ATA 3230

After a landing incident, the pilot stated he could not get the nose landing gear to lock down. All attempts to lock the gear down failed, and the nose gear collapsed when it contacted the runway.

During a thorough inspection, a technician discovered the nose gear drag link clevis pin (P/N 20859-03) was broken. The broken clevis pin allowed the reinforcement mounting screws to bear the load intended for the clevis pin. The screws sheared at the load point, and the screw heads backed out far enough to contact the wheel well side panel and prevented nose gear extension.

The submitter recommended giving this hardware a close inspection for security and condition during scheduled inspections and especially after hard landings.

Part total time-4,977 hours.

#### Piper; Model PA 28-140; Cherokee; Main Landing Gear Failure; ATA 3213

After a landing incident, the pilot stated the left main landing gear failed when it contacted the runway during a normal landing.

The left main gear lower strut assembly separated from the upper strut cylinder. The lower strut failed at the machined boss for the lower torque link (P/N 65691-00/V).

In accordance with Airworthiness Directive (AD) 72-08-06, the torque link requires an inspection at 500-operating hour intervals. This particular torque link was 66 hours from that inspection, and the failure occurred at the inspection site. The submitter believes this failure was attributable to metal fatigue and hard use since the aircraft is used in a training environment.

The submitter recommended the inspection time listed in AD 72-08-06 be reduced, especially for aircraft used strictly for training, and replacing the torque links with the new part (P/N 78032-000) furnished by Piper.

Part total time-6,416 hours.

#### Piper; Model PA 28-161; Warrior; Main Landing Gear Strut Defect; ATA 3213

During a scheduled inspection, a technician discovered that one ear of the left main gear upper torque link was broken

There are two ears attached to the main landing gear upper strut (P/N 65319-004) housing that are used to attach the upper half of the torque link. After finding this defect, he inspected the right main gear and discovered one of the upper attachment ears was cracked. Due to this finding, he inspected the remainder of his fleet of aircraft and found one other strut with a cracked torque link attachment ear.

The FAA Service Difficulty Program data base contains 26 additional reports concerning cracks and separation of the torque link attachment ears. These additional reports involved models PA 28-140, PA 28-151, PA 28-180, and PA 28-181, which use the same main gear strut.

Many of these failures may be due to hard landings, age, metal fatigue, and/or age.

Part total time-11,438 hours.

#### Piper; Model PA 28R-180; Arrow; Landing Gear Failure; ATA 3230

During a normal landing, the nose and right main landing gear collapsed.

After recovering the aircraft from the runway, the technician moved it to a hangar and conducted a landing gear operational test. At first, the landing gear operation appeared to be normal. After investigation further, he discovered the right main gear "down" microswitch was damaged and "coming on" early. The nose gear microswitch actuation was intermittently early. This caused the gear to stop prior to attaining the "down-and-locked" position.

Part total time-4,000 hours.

#### Piper; Model PA 28R-201; Arrow; Takeoff Engine Failure; ATA 7160

The pilot/owner stated that during takeoff, he experienced a loss of engine power just after lift-off. He was able to safely abort the takeoff. This aircraft uses a Textron Lycoming Model IO-360 engine.

The technician discovered the alternate air door had separated and was lodged inside the fuel control servo throttle body. This effectively blocked air induction into the engine and caused the loss of power.

This induction air system uses an adapter assembly (P/N 99047-000) to attach the alternate air door hinge. Three rivets (P/N AN 470-AD3) are used to attach the hinge. In this case, the three rivets sheared allowing the door to separate.

The submitter recommended the manufacturer improve the design by installing a more structurally substantial means of attaching the alternate air door assembly.

Part total time-273 hours.

# Piper; Model PA 28RT-201; Arrow; Improper Main Landing Gear Wheel Installation; ATA 3246

While conducting an annual inspection, the technician discovered the right main landing gear wheel assembly was not installed properly.

The wheel assembly axle nut (P/N 66820-00) was installed backward. In this configuration, it was necessary to back the nut off far enough to align the cotter pin hole, which left a large gap between the nut and the wheel assembly. (Refer to the illustration.) The axle was severely grooved by contact with the wheel and the bearings. The wheel brake assembly was given credit for at least limiting wheel assembly movement.

The submitter could not determine when or who accomplished the last wheel assembly installation. The length of time the aircraft had been operating in this condition could not be ascertained. This type of shoddy maintenance imposed a very serious safety hazard on the aircraft and occupants. This situation was totally avoidable, and it is very difficult to understand how it could occur.

This aircraft displayed several other glaring safety-related discrepancies that indicated totally improper maintenance.



Part total time-5,554 hours.

#### Piper; Model PA 31-350; Chieftain; Erratic Engine Fuel Flow Indication; ATA 2823

The pilot reported noticing erratic fuel flow indication on the right engine during takeoff. He aborted the flight and returned to the airport.

The technician found the fuel firewall shutoff valve was causing erratic fuel flow to the engine. Under operational conditions, the shutoff valve would momentarily move toward the "closed" position and then open again. He attributed the valve movement to a severely worn actuator rod-end (P/N 469-153). After he replaced the rod-end and rigged the actuator linkage, normal operation was restored.

The submitter recommended checking the fuel shutoff valve actuator linkage for wear and condition during scheduled inspections.

Part total time not reported.

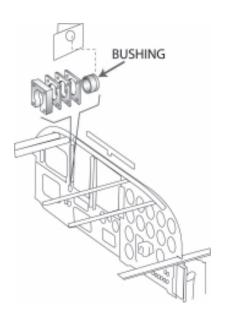
#### Piper; Model PA 34-220T; Seneca; Flight Control Operation Difficulty; ATA 2701

After returning from a flight, the pilot stated the flight control column "locked up" and could not be moved forward or aft. With a sudden "jerk," the pilot was able to regain control of the aircraft and landed safely.

When the flight controls were freed, the pilot noticed the control column bushing (P/N 68273-02) was "frozen" to the shaft of the control yoke. (Refer to the illustration.) The "jerking" motion dislodged the bushing from the instrument panel attachment plate (P/N 68272-03).

The submitter speculated a lack of lubrication and the presence of corrosion between the inside diameter of the bushing and the control column shaft caused this problem.

Part total time-2,031 hours.



#### Piper; Model PA 42-720; Cheyenne; Cabin Pressurization System Failure; ATA 2130

While flying at 23,000 feet, the pilot noticed the cabin altitude began a steady increase. After all efforts to stabilize the cabin pressure failed, he declared an emergency. He descended to 11,000 feet altitude and continued the flight to the destination.

Maintenance personnel investigated the report and discovered the bleed air pressure regulator (P/N 584-255) had failed causing the loss of cabin pressure. After replacing the pressure regulator, the cabin pressurization system functioned properly during a test.

The submitter did not give a cause for failure of the bleed air pressure regulator.

Part total time-7,822 hours.

## Piper; Model PA 46-500TP; Malibu; Cabin-Entry Door Defect; ATA 5210

In the process of a scheduled inspection, a technician discovered a defect on the cabin-entry door.

The forward door support cable (P/N 89630-004) was severely frayed adjacent to the upper swaged fitting where the "T" handle is attached. The damage required replacement of the support cable assembly.

The submitter made the following statement, "Inadequate design of support cables. Cable kinks at end of swaging, which caused failure. Same problem exists on PA 46-350P series aircraft."

Part total time-79 hours.

#### TWIN COMMANDER

#### Twin Commander; Model 690A; Wing Flap System Defect; ATA 2750

During a scheduled inspection, a technician discovered a structural component of the wing flap system was cracked.

The wing flap master pulley upper support bracket (P/N 510003-357) was cracked at the forward lower inboard corner. The crack extended up and aft at approximately a 45-degree angle for a distance of .9 inch. The location of this defect is somewhat hidden behind cables and linkage and could be easily overlooked during inspections. The submitter stated this defect severely compromised the structural integrity of the bracket and consequently the wing flap system.

The submitter speculated the crack resulted from "excessive stress, possibly from mis-rigged flaps or from extending the flaps at excessive airspeed." He recommended giving this area special attention during scheduled inspections and maintenance.

Part total time-5,883 hours.

#### WACO

#### Waco; Model YMF; Rudder Control System Defect; 2720

While inspecting the aircraft, a technician discovered the rudder control rod was broken.

The rod end (Aurora P/N ASM-4T) was broken at the fourth thread of the shank from the bearing end. The technician discovered the rudder was out of alignment and placed a preload stress on the lower rudder rod end bearing attachment.

He recommended giving the flight control surfaces and the brace wire close attention during scheduled inspections and maintenance.

Part total time-172 hours.

# **HELICOPTERS**

#### **AGUSTA**

#### Agusta; Model A109E; High Engine Oil Temperature; ATA 7921

After an in-flight engine shutdown and an emergency landing, the pilot stated the left engine oil temperature climbed into the yellow arc, and the "engine oil hot" warning light illuminated.

During an investigation, a technician discovered the number 1 engine oil cooler drivebelt (P/N 109-0455-09-103) had broken. Examining the remains of the drivebelt, the technician found the malfunction was due to "structural cord failure."

The relatively short time in service leads one to suspect there may have been a manufacturing defect, which resulted in failure of the drivebelt cords.

Part total time-45 hours.

#### **BELL**

#### Bell; Model 430; Transmission Oil Leak; ATA 6310

During a scheduled inspection, the technician discovered an oil leak at the main transmission number 1 input drive.

After a closer examination, the technician discovered the bottom of the number 1 engine oil tank was cracked. The crack was approximately 1.5 inches long and was adjacent to the bottom outlet port.

The submitter believes the crack was caused by contact with the forward engine inlet cowling.

Part total time-1,571 hours.

#### **ERICKSON**

#### Erickson; Model S-64F; Skycrane; Main Rotor Blade Defect; ATA 6210

During a postflight inspection and compliance with the inspection requirements of a service bulletin, the technician discovered a "suspect" area on a main rotor blade.

The technician removed the main rotor blade (P/N 6415-20603-041) and confirmed it was cracked. The crack was approximately 1.75 inches long and was located between pocket number 8 and number 9. He speculated corrosion pitting caused the crack.

The submitter recommended the spar areas of the main rotor blades be stripped of paint and inspected closely at frequent and regular intervals. The damaged area is susceptible to corrosion and should be given close attention. Also, continued compliance with the service bulletin should ensure future defects are detected before causing more severe damage.

Part total time-8,203 hours.

#### EUROCOPTER

#### Eurocopter; Model BK-117-B1; Poor Engine Performance; ATA 7200

After a flight, the pilot reported experiencing an oscillation of the number 1 engine torque, which fluctuated rapidly. The N2 indication varied between 60 and 100 percent followed by an RPM warning and the illumination of numerous caution lights. He was able to execute a successful single-engine run-on landing.

Maintenance personnel investigated the reported problem and discovered the number 1 engine N2 governor shaft was binding. The binding shaft caused the gear to spin on the shaft and created the symptoms described above. Removal and replacement of the governor assembly (P/N 4-301-212-04) solved the problem.

Part total time since overhaul-827 hours.

#### MCDONNELL DOUGLAS

McDonnell Douglas; Model 369D; Swashplate Anomaly; ATA 6710

During a scheduled inspection, a technician discovered the main rotor swashplate had excessive movement.

The swashplate moved vertically approximately .75 inch freely. Further investigation revealed wear on most of the "mixer" assemblies (P/N 369D27600). The most severe wear was at the pivot point for the lateral bellcrank.

The submitter did not give a cause for this defect; however, it was necessary to replace the unit.

Part time since overhaul-1,392 hours.

# AMATEUR, EXPERIMENTAL, AND SPORT AIRCRAFT

#### **AVIAT**

Aviat; Model A1-B; Husky; Engine Exhaust System Defects; ATA 7800

The aircraft owner reported the engine was making an unusually loud sound.

The technician removed the muffler (P/N 35650) and engine exhaust system duct assembly (P/N 35651). He discovered the internal muffler baffles were missing, and the lower slip joint for the number 4 cylinder was leaking severely.

The submitter recommended that owners report any anomaly and have them investigated by a qualified maintenance technician. Technicians are urged to pay special attention to the engine exhaust system on each aircraft they inspect or maintain.

Part total time-589 hours.

#### ROTORWAY

#### Rotorway; Model 162F; Loss of Tail Rotor Control; ATA 6500

During an accident investigation, the pilot stated that he lost tail rotor control.

Inspecting the helicopter, an investigator found the center tail rotor drivebelt (P/N E18-1150) had failed. The submitter speculated the drivebelt failed because it had been misrouted from one idler pulley to the next through the tail boom.

The submitter recommended that all owners of like helicopters inspect the tail rotor drivebelt system for proper routing and drivebelt condition in compliance with the manufacturer's Inspection Bulletin.

Part total time-208 hours.

# POWERPLANTS AND PROPELLERS

#### **HARTZELL**

#### Hartzell; Model HC-E4A-31; Blade Bearing Failure; ATA 6111

This propeller assembly was installed on a Beech, Model 1900D aircraft with a Pratt & Whitney, Model PT6A67D powerplant.

After noticing grease leaking from the propeller blade sockets, a technician removed the propeller assembly from service and sent it to a repair station for evaluation.

Repair station technician disassembled the propeller and discovered that two blade bearing races (P/N C792) had failed completely. The bearing races were broken into several pieces. He discovered the bearing "splits" in the races were improperly indexed at the parting line and speculated this may have caused this defect

Part time since overhaul-2,736 hours.

#### **TEXTRONLYCOMING**

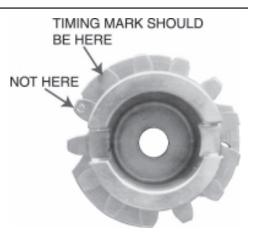
Textron Lycoming; Model O-320; Defective Crankshaft Gear Timing Mark; ATA 8520

This engine was installed in a Piper, Model PA 28-140 aircraft. After installing a new engine, a technician performed an operational test and found it would not develop full power.

The technician suspected the engine timing was not correct. He discovered the crankshaft gear (P/N SL13S19646) timing mark was lined up; however, the timing was not actuated. The crankshaft gear timing mark was off by "one tooth." (Refer to the illustration.)

The submitter did not give the origin or disposition of the defective part.

Part total time-0 hours.



#### Textron Lycoming; Model O-320; Accessory Section Defect; ATA 8540

This engine was installed in a Cessna, Model 150H aircraft, in accordance with a Supplemental Type Certificate (STC), used for "banner towing."

During an annual inspection and engine oil change, the technician discovered metal particles on the oil screen and inside the oil filter. Using a magnet, he found the particles were both aluminum and ferrous metal. The oil remaining in the oil filter looked like "aluminum paint."

The technician disassembled the engine accessory gear case and found the crankshaft idler gear (P/N LW-13796) shaft and the attaching hardware were loose and allowed the shaft to rotate, wiggle, and elongate the engine crankshaft hole. Some of the attaching hardware had separated and damaged the crankshaft idler gear.

During the last engine oil change conducted 44.6 operating hours prior, there were no defects noted.

The submitter stated the engine was in imminent danger of a catastrophic failure. The submitter suspected the aircraft suffered an unreported propeller strike since the last oil change.

Part total time-1,708 hours.

#### Textron Lycoming; Model TIO-540; Cylinder Crack; ATA 8530

The pilot returned from a flight and reported noticing high cylinder head temperatures (CHT). This engine was installed in a Piper, Model PA 31-350 aircraft.

A technician discovered the number 6 cylinder (Superior P/N SL-540D2) was severely cracked. The temperature probe being installed at this location explains the high CHT indication.

It appeared the crack originated at a spark plug hole and traveled down to the first cooling fin of the steel cylinder barrel. The crack is in the machined area for a push-rod tube. (Refer to the illustration, which shows an area in the center of the push-rod cutout where the cylinder head was penetrated.)

This cylinder was in service only a short time. The submitter urged technicians to conduct a thorough and searching receiving inspection prior to installing new cylinders.



Part total time-198 hours.

# **AIRNOTES**

#### **SUBSCRIPTIONS**

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#### **ELECTRONIC VERSION OF MALFUNCTION OR DEFECT REPORT**

One of the recent improvements to the AFS-600 Internet web site is the inclusion of FAA Form 8010-4, Malfunction or Defect Report. This web site is still under construction and further changes will be made; however, the site is now active, usable, and contains a great deal of information.

Various electronic versions of this form have been used in the past; however, this new electronic version is more user friendly and replaces all other versions. You can complete the form online and submit the information electronically. The form is used for all aircraft except certificated air carriers who are provided a different electronic form. The Internet address is:

http://av-info.faa.gov/isdr/

When the page opens, select "M or D Submission Form" and, when complete, use the "Add Service Difficulty Report" button at the top left to send the form. Many of you have inquired about this service. It is now available, and we encourage everyone to use this format when submitting aviation, service-related information.

#### SERVICE DIFFICULTY REPORTING PROGRAM

The objective of the Service Difficulty Reporting (SDR) Program is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products fleet wide. The SDR program is an exchange of information and a method of communication between the FAA and the aviation community concerning inservice problems.

A report is filed whenever a system, component, or part of an aircraft, powerplant, propeller, or appliance fails to function in a normal or usual manner. In addition, if a system, component, or part of an aircraft, powerplant, propeller, or appliance has a flaw or imperfection which impairs, or which may impair its future function, it is considered defective and should be reported under the program.

These reports are known by a variety of names: Service Difficulty Reports (SDR), Malfunction and Defect Reports (M and D) and Maintenance Difficulty Reports (MDR).

The consolidation, collation and analysis of the data, and the rapid dissemination of trends, problems and alert information to the appropriate segments of the aviation community and FAA effectively and economically provides a method to ensure future aviation safety.

The FAA analyzes SDR data for safety implications and reviews the data to identify possible trends that may not be apparent regionally or to individual operators. As a result of this review, the FAA may disseminate safety information to a particular section of the aviation community. The FAA also may adopt new regulations or issue airworthiness directives (AD's) to address a specific problem.

The primary source of SDR's are certificate holders operating under Parts 121, 125, 135, 145 of the Federal Aviation Regulations, and the general aviation community which voluntarily submit records. FAA Aviation Safety Inspectors may also report service difficulty information when they conduct routine aircraft and maintenance surveillance as well as accident and incident investigations.

The SDR database contains records dating back to 1974. Reports may be submitted on the Internet through an active data entry form or on hard copy. The electronic data entry form is in the AFS-600 Aviation Information web site under the heading SDR Main Menu. The URL is: <a href="http://av-info.faa.gov">http://av-info.faa.gov</a>

A public search/query tool is also available on this same web site. This tool has provisions for printing reports or downloading data.

At the current time we are receiving approximately 45,000 records per year.

#### Point of contact is:

Tom Marcotte Service Difficulty Program Manager Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125

Telephone: (405) 954-6500

9-AMC-SDR-ProgMgr@mmacmail.jccbi.gov

#### **ADDRESS CHANGES**

In the past, the Designee Standardization Branch (AFS-640) maintained the mailing list for this publication. Now, the Government Printing Office (GPO) sells this publication and maintains the mailing list; therefore, please send your address change to: U.S. Government Printing Office, **ATTN: SSOM, ALERT-2G**, 710 N. Capital Street N. W., Washington, DC 20402

You may also send your address change to GPO via FAX at: (202) 512-2168. If you FAX your address change, please address it to the attention of: **SSOM, ALERT-2G**. Whether you mail or FAX your address change, please include a copy of your old address label, and write your new address clearly.

#### IF YOU WANT TO CONTACT US

We welcome your comments, suggestions, and questions. You may use any of the following means of communication to submit reports concerning aviation-related occurrences.

**Editor:** Phil Lomax (405) 954-6487

**FAX:** (405) 954-4570 or (405) 954-4748

Mailing address: FAA, ATTN: AFS-640 ALERTS, P.O. Box 25082,

Oklahoma City, OK 73125-5029

E-Mail address: Phil W Lomax@mmacmail.jccbi.gov

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When the page opens, select "AFS-640" and then "Alerts" from the drop-down menu. The monthly issues of the Alerts are available back to July 1996, with the most recent edition appearing first.

#### **AVIATION SERVICE DIFFICULTY REPORTS**

The following are abbreviated reports submitted between May 25, 2002, and June 19, 2002, which have been entered into the FAA Service Difficulty Reporting (SDR) System data base. This is not an all inclusive listing of Service Difficulty Reports. For more information, contact the FAA, Regulatory Support Division, Aviation Data Systems Branch, AFS-620, located in Oklahoma City, Oklahoma. The mailing address is:

FAA Aviation Data Systems Branch, AFS-620 PO Box 25082 Oklahoma City, OK 73125

These reports contain raw data that has not been edited. If you require further detail please contact AFS-620 at the address above.

#### FEDERAL AVIATION ADMINISTRATION

Service Difficulty Report Data

Sorted by Aircraft Make and Model then Engine Make and Model. This Report Derives from Unverified Information Submitted By the Aviation Community without FAA review for Accuracy.

ACFTMAKE ACFTMODEL REMARKS	ENG MAKE ENG MODEL	COMPMAKE COMPMODEL	PART NAME PART NUMBER	PART CONDITION PART LOCATION	DIFF-DATE OPER CTRL NO.	T TIME TSO
KEMAKKS		AMERIKING	GSWITCH		05/07/2002	
		AK450	GBWITCH	GSWITCH	CA020507007	
(CAN) DURING R	ROUTINE SHOP IN		COVERED THAT THE "	G" SWITCH IN THIS UNIT REQU		RCE TO
				R RETURN TO MANUFACTURER		
				E MANUFACTURER WOULD BE		
NEW UNIT		1 111202 011110 111020	DI. 10 DIIII I II 10 10 11	E MINOTHETETER WOODS BI		01 01 11
AMD	GARRTT		TURBINE	DAMAGED	05/22/2002	
FALCON10	TFE73121C		TOTABLE	NR 1 ENGINE	2002FA0000690	
	F AND DURING CI	IMBOUT. THE PILOT I	EXPERIENCED A COME	PUTER GENERATED AUTOMAT	IC ROLL BACK OF POV	VER ON THE
				R SETTING. IT WAS THEN NOT		
				NGINE WAS SHUT DOWN AS A		
				NANCE RUNS FOR TROUBLESHO		
				EMOVED FOR REPAIR. CAUSE O		
AMTR	ROTAX		RIB	DAMAGED	04/08/2002	
RV8	ROTAX912			WING ROOT	AUS20020450	
(AUS) RT WING	ROOT RIB FAULT	Y DUE TO MOISTURE I	NGRESS. FOUND DURI	ING INSPECTION IAW AD/CA25	/7-1.	
AMTR	ROTAX		RIB	DAMAGED	05/02/2002	
RV8	ROTAX912			WING ROOT	AUS20020451	
(AUS) WING RIB	LOCATED THIRD	OUTBOARD FROM TH	E WING ROOT CONTA	MINATED WITH MOISTURE. FO	UND DURING INSPECT	TION IAW
AD/CA25/7-1.						
ARONCA	CONT		SPAR CAP	CORRODED	04/22/2002	
15AC	C1452		22840111	WING	CA020507019	
(CAN) INTERGR.	ANULAR CORROS	SION FOUND ON TOP S	PAR CAP (ANGLE) BO	TH WINGS. REQUIRED REPLAC	EMENT (FOUND AT A	NNUAL
INSPECTION).						
AVIONS	LYC	LYC	SPARK PLUG	FOULED	05/19/2002	
R2160	O320D2A	O320D2A	L1316339A	SPARK PLUG/IGNIT	AUS20020475	2032
(AUS) NO4 CYLI	NDER SPARK PLU	JGS FOULED.				
BAC	DHAVXX		SELECTOR	LOOSE	02/16/2002	
MK3A	GIPSYMAJOR1		D406	FUEL SYSTEM	AUS20020412	
(AUS) DURING T	HE FIRST FLIGHT	FOLLOWING AIRCRA	FT RESTORATION THE	E ENGINE DEVELOPED POWER S	SURGES. INVESTIGATI	ON FOUND

THAT THE FUEL SELECTOR LEVER WAS LOOSE AND NOT ALIGNED WITH THE TANK

						,
BBAVIA	LYC		CONTROL	FRAYED	04/25/2002	
8GCBC	O360C2E		19023	TE FLAPS	CA020507018	
'		ABLES FRAYED AT WI				
BBAVIA 8GCBC	LYC O360C2E		CABLE 19023	FRAYED RT & LT TE FLAPS	05/24/2002 CA020524006	
		ABLES FRAYED AT WI		TH 2ND NOTCH OF FLAP SELE		
BEECH	PWA	RAYTHN	RELAY	CORRODED	04/04/2002	14010
1900D	PT6A67D	B1900D	77GB408R4A18	CONTACT	CA020419003	14010
				CK THE FUEL SHUTOFF VALVI		
	Y AND WIRE WAS		TION WE FOUND ALL	THE CONTACT ON RELAY (A23	66K1)CORRODED AND	FEW PIN
BEECH	PWA	LUCAS	STARTER GEN	CRACKED	02/11/2002	
1900D	PT6A67D	23078019	23078019	L/H ENGINE	CA020528003	
				WAS SHUTDOWN AND TRIED T		
		,		LING FAN WHICH IS PART OF U TOR, ENGINE RUNS CARRIED (		SALL
SERVICEABLE.	OSFECTED BEAKI	ING PAILUKE, KEFLAC	ED STAKTER GENERA	TOR, ENGINE RUNS CARRIED	OUT AND CHECKED	
BEECH	PWA		FORK	UNSERVICEABLE	05/02/2002	
200BEECH	PT6A41		1158200683	NOSE/TAIL LANDIN	AUS20020407	
		CHROMED PORTION EX W AD/BEECH200/45 AN		50IN) AND LENGTH OF THE TUE	BE EXCEEDED 91MMN	4 (23.10IN).
BEECH	PWA	V AD/DEECH200/43 AN	FRAME	CRACKED	05/16/2002	11484
200BEECH	PT6A41			FUSELAGE	CA020516011	11.0.
				SHEET METAL REPAIR TO BE I		HER FLIGHT.
BEECH	CONT	BEECH	FITTING	WORN	05/06/2002	
58	IO520C	BARONB58	00244002373	HORIZONTAL STUB SPAR ALSO WORN.	AUS20020473	
BEECH	PWA	PWC	ENGINE	MAKING METAL	05/07/2002	
A100	PT6A28	PT6A28	PT6A28	R/H SIDE	CA020527001	
				PARAMETERS, ENGINE SHUT		
			IL FILTER REVEALED	METAL TRACES, ENGINE WAS	REMOVED AND SENT	T TO PRATT &
WHITNEY (CALC	GARY) FOR FURTE CONT	HER INSPECTION.	MAGNETO	SHORTED	04/19/2002	1347
A36	IO550B		6310	LEFT	2002FA0000670	1347
DURING ROUTI	NE INSPECTION W	HITE POWDER WAS N	OTICED AT LEFT MAG	NETO VENT. REMOVED MAGN	ETO FOR INTERNAL I	NSPECTION
	IL HAD SHORTED	OUT, ARCING AND M	ELTING DISTRIBUTOR	BLOCK AND GEAR ASSEMBLY	Y. INSTALLED NEW M	AGNETO
ASSEMBLY. BEECH	LYC		CRANKCASE	CRACKED	04/11/2002	
C23	O360A4K		LW13820	ENGINE	CA020503005	
		CTION, AN OIL LEAK V		RANKCASE HOUSING. FURTHE		ALED A
		HAND PART OF THE CA	ASE.			
BEECH	CONT		CLAMP	CRACKED	04/15/2002	
D55	IO520C	EOLIND TO DE CDACK	31561 ED IN THE MIDDLE MI	COUNTERWEIGHT  ID-WAY BETWEEN THE CLAMP	CA020510020	
BELL	LYC	LYC	ENGINE	FAILED	06/02/2002	
205A1	T5313B	T5313B		ENGINE	CA020607007	
				NG' ILLUMINATED. AFTER VER		
				FEET, ENGINE CHIP LIGHT CAN		
				OIL PRESSURE DROPPING FAS NDER POWER. ENGINE WAS SH		
				OFFICER EXITED A/C. COMBIN		
PEOPLE &						
BELL	LYC		BLEED BAND	OUT OF ADJUST	05/26/2002	
205A1	T5317A	G A COMPRESSOR STA	I I OCCURRED THE P	ENGINE ILOT HOVER TAXIED WITH REI	CA020530002	F
( - )				Γ WAS RETURNED BACK TO ST		
				HE FUEL FILTER WAS CHECKE		
				BLE INLET GUIDE VANES WER		
CONTRIBUTED		NEAROVERHAUL SO N	AAYBETT WAS GETTIN	IG TIRED OR POSSIBLE FUEL CO	ONTAMINATION MIGI	HTHAVE
BELL	ALLSN		SUPPORT	DAMAGED	05/06/2002	
206B	250C20		2060313011215	LANDING GEAR	AUS20020430	
( )				AD BEEN DAMAGED BY A HAR		
	Y REPAIRED. THE	HELICOPTER HAD ON	ILY RECENTLY BEEN	IMPORTED INTO AUSTRALIA.I	PERSONNEL/MAINTE	NANCE
ERROR. BELL			BLADE	CORRODED	05/20/2002	2968
206L1			206015001107	MAIN ROTOR	HEEA079101	2908
	ULGE OVER THE	SPAR AT STA. 96.25 IN		SURFACE WHICH APPEARS TO		ADE HAS
	RROSION AND SEP	PARATION ON THE LO				
BELL			MOUNT	WORN	05/01/2002	
206L3 IN SERVICE FOR	2 11 1/2 MONTHS E	REMOVED DITE TO WE	206064107101 AR OF THE BEARING	ENGINE ALSO NOTED THE TUBE INSIDE	HEEA078752 EDIAMETER IS MUCH	LARGER
				HE TWO. CAUSES THE HI LOC TO		
BEYOND LIMITS	S. SCRAPPED ENG					
BELL			TRANSCEIVER	DAMAGED	05/16/2002	
214ST	I V DDE AVO COLE	TOTAND WEAR DED	064102300	VHFSYSTEM VINSPECTION REMOVED COR	HEEA079074	e i e
				Y INSPECTION. REMOVED COR D 0102, 0104 AND 0106 TRANS		
				RECEIVER WEAK AND NO TRA		
		D TRANSMITTER. BEN				

BELL	LYC	LYC	FITTING	WORN	04/11/2002	
222U	LTS101750C1	LTS101750C1	416209004	FUEL LINE FITTIN	CA020521004	
					ZONE WITH TOWER. PILOT I	DECLARED
					D. AND AIR TAXI BACK TO F	
					CNTL UNIT. SEE LTS101-4.4 I	
					CNTL FITTING WORN. LINE (	
					TIGHT AT TIME OF LEAK RE	
		ING THE LEAK. LATE		EAL. LINE FOUND TO BE	TIGITI AT TIME OF LEAK RE	TORQUEING
BELL	Frection Storp	ING THE LEAK, LATE	PITOTTUBE	DAMAGED	05/15/2002	
407			AN58131	STATIC/PITOT SYS	HEEA079036	
	I INCIDE AND ON	DACKGIDE OF DITOT T				VTEDIOD
	INSIDE AND ON	BACKSIDE OF PITOT I			UBE HAS SMALL DENT ON E	ATERIOR.
BELL			MOUNT	DETERIORATED	05/15/2002	
407	DUDDED DETERM	DATED ON THE DOT	407310203101	TAIL ROTOR	HEEA078998	
	RUBBER DETERIO	ORATED ON TAIL ROT		WORN	05/15/2002	
BELL			BEARING	WORN	05/15/2002	
407		DE LEDIC	407340339101	COOLER BLOWER	HEEA079005	
	ER HAS A WORN	BEARING.				
BELL	ALLSN		SENSOR	MALFUNCTIONED	05/07/2002	
407	250C30		23054164	ENGINE	HEEA078808	
	P CAUSING NP1, N	NP1 RATE, OS, NPOS A	ND NPD FAULTS TO F	ADED SYSTEM. REPLAC	ED WITH SERVICEABLE SEN	ISOR PICKUP
ASSY.						
BELL	ALLSN		WIRE HARNESS	BROKEN	05/08/2002	
407	250C30		407375012101	FADEC	HEEA078875	
BREAK IN CAB	LE CAUSING FAD	EC NG1 FAULT AND N	G1 CONTINUITY FAUI	T. BREAK IS APPROXIM	ATELY 3 INCHES FROM ECU	CONNECTOR
PLUG.						
BELL	ALLSN		GEAR	ROUGH	05/14/2002	
407	250C47B		23071895	GEARBOX	2002FA0000706	
(TM GEAR) UPO	N VISUAL INSPE	CTION OF PART. FOUN	D EXTREMELY ROUG	H GEAR TEETH EDGES A	T RADIUS ON FORWARD TE	ETH. SENT
FOR WARRANT	Y.					
BELL	ALLSN		GEAR	MISMANUFACTURE	02/27/2002	
407	250C47B		23071895	GEARBOX	2002FA0000707	
(TM GEARS) UF	ON VISUAL INSPI	ECTION OF NEW PART	FROM STOCK, IMPRO	PER AND UNFINISHED M	IACHINING ON GEAR TEETH	AT RADIUS.
BELL	ALLSN		GEAR	MISMANUFACTURE	04/16/2002	
407	250C47B		23071896	GEARBOX	2002FA0000708	
		EW PARTS FROM STO			AND MESHING OF GEAR TE	ETH AT
RADIUS.			,			
BELL			STRUCTURE	SEPARATED	05/20/2002	
412			205030280141	WORK DECK	HEEA079099	
	LED WORK DECK	EOUND TO BE SEPAI			AS 5 INCHES IN DIAMETER	NEAR EWD
CENTEROF DEC		CI OCIND TO BE SELLIN	ATTED ON BOTTOM. 1	THE BEITHORTED THEIR W	715 5 INCIDES IN BIRINETER	INL/INCT WID
BELL	K ABB I.		MAGNETIC	LEAKING	05/24/2002	
412			PHI212412830	MAIN ROTOR	HEEA079223	
	DIVE MACNETIC	SEALLEANS DEDIAC	ED WITH SERVICEAB		HEEA0/9223	
BELL BELL	KI VE MAGNETIC	SEAL LEAKS. KEPLAC	BLADE	DAMAGED	05/30/2002	13953
412			412015300109	MAIN ROTOR	HEEA079588	13933
	EDAID DELOW TH	E TRIM TAR ON THE A				
		E IRIM TAB ON THE N	PUMP	AS SOME SEPARATION A WRONG PART		
BNORM	LYC				04/30/2002	
BN2B20	IO540K1B5	ND DUDDIG CDOUDIE	RG17980	ENGINE FUEL	AUS20020404	TI IDAE OLIENTA
					T PUMP WAS TURNED OFF.	
					L IN LIEU OF PUMP PN RG17	
					THE AIRFRAME SUPPLY TO	
					IP IS SHORTER THAN THAT	
	AND ONLY ENGA	AGES BY (AUS) HORIZ	ONTAL STABLISER BE	EARING ATTACHMENT FI	TTINGS CORRODED. CPCP -	LEVEL 2
CORROSION.						
BOLKMS			TRANSDUCER	FAILED	05/14/2002	
BO105S			214074108101	FLT COMPUTER	HEEA078934	
	F LINE AND HAS	NO RESISTANCE MOV				
BOLKMS			BUSHING	CORRODED	05/06/2002	
BO105S			1053172902	M/R DRIVE	HEEA079252	
PITTED CORRO	SION ON BUSHIN	G FLANGES ON MAIN	ROTOR DRIVE.			
BOLKMS			BATTERY	WEAK	05/30/2002	12
BO105S			RG390E	MAIN	HEEA079797	
BATTERY WEA	K.					
BOLKMS			CONTROL	DAMAGED	05/30/2002	
BO105S			071121540	COCKPIT	HEEA079786	
DIGITS WEAK.	REPLACED DISPL	AY LENS AND PHOTO	CELL. ALSO REPLACI	ED MISSING FROM END (	OF KHZ SELECTOR SHAFT. R	EPLACED
BAD 28 VOLT B	ACKLIGHT BULB	AND TOUCHED UP FA	ACEPLATE WITH BLAC	CK PAINT. BENCH CHECK		
CESSNA	LYC		BRACKET	CRACKED	02/22/2002	14000
152	O235*		04320049	HORIZSTAB	2002FA0000668	
WHILE INSPEC	TING THE NUTPLA	ATES IAW AD. WE FOU	IND THAT THE FORWA	ARD UPPER WELD JOINT	HAD CRACKED ADJACENT	TO THE
NUTPLATES TE	EMSELVES. THIS	AIRCRAFT IS OPERAT	ED IN A TRAINING EN	VIRONMENT AND IS SUB	JECTED TO A LOT OF ABRUE	T
					D BE PLACED ON INSPECTIN	
					JT PLATES REMOVED TO DO	
THE AD INSPEC				The state of the s		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CESSNA	LYC		BRACKET	CRACKED	02/25/2002	10000
152	0235*		04320049	HORIZSTAB	2002FA0000671	10000
		ATES IAW AD WE FOI			HAD CRACKED ADJACENT	TO THE
					JECTED TO A LOT OF ABRUP	
					D BE PLACED ON INSPECTIN	
					JTPLATES REMOVED TO DO	
THE AD INSPEC		, 011111110, 110	I			
110 HADI EC						

CESSNA	LYC		MAGNETO	CONTAMINATED	05/25/2002	
152	O235L2C	IEN DT MAG GET EGT	D OH CONTAINS	ENGINE	CA020530016	NIETO WAS
	Г RAN ROUGH WH A/C GROUND RU		ED. OIL CONTAMINAT	ION WAS FOUND IN BREAKER	COMPARTMENT. MAG	ENETO WAS
CESSNA	CONT	NS COMPLETED.	PLATE	CRACKED	03/28/2002	
170	C1452		05501623	PROP SPINNER	AUS20020417	
· /	ER SPINNER BACK	XPLATE CRACKED. C	RACK TRAVELED ARC	OUND PROPELLER FLANGE AF	REA AND RADIATED O	OUT TO THE
FLANGE. CESSNA	CONT		PISTON	BROKEN	05/09/2002	
172B	O300C		646255	ENGINE	CA020530009	
		IBLE PROBLEM. PIEC		ROKEN LOOSE HELD IN BY OII		R CURVE
ONLY.						
CESSNA	CONT		BRACKET	CRACKED	05/16/2002 CA020530006	
172F (CAN) DURING S	O300C SCHEDULED MAIN	JTENANCE IT WAS D	05130633 ISCOVERED THAT TH	PAX DOOR FRAME E BELLCRANK BRACKET P/N (		CHEAD
				THE BRACKET WAS CRACKED		
USING THE EXIS	TING RIVET SIZE					
CESSNA	LYC		TUBE	DEFECTIVE	05/21/2002	
172M	O320E2D OF CENTER SEAM	I OE 600 V 6 6 DI V TI	0923150 PETURE THIS HAS O	TIRE CCURED ON 2 OTHER SEPERAT	CA020522006	IED HAS BEEN
				IN AND INQUIRE ABOUT THE I		
ARE ON FILE AN	ID MAY BE E-MAI	LED IF REQUESTED. S	SUPPLIER HAS BEEN A	SKED FOR CREDIT FOR THESE	E TIRE TUBES.	
CESSNA	LYC	LYC	IGNITION	FAULTY	05/01/2002	
172P	O320D2J	O320D2J	C2925010105	IGNITION SWITCHI	AUS20020446	711
CESSNA	LYC	18 DIKTY AND OILY.	BATTERY	G.SUSPECT INCORRECT LUBRI MISINSTALLED	05/01/2002	.Π.
172P	O320D2J		012096	ELT	AUS20020432	
( )	ERIES INCORRECT	TLY FITTED.				
CESSNA	LYC		SWITCH	FAILED	04/09/2002	
172R	IO360A1A	K SWITCH. 0510.2 TAC	S28701	COCKPIT	2002FA0000672	
CESSNA	LYC	C 5 W 11 C 11. 05 10.2 1 A C	SWITCH	INOPERATIVE	04/09/2002	510
172R	IO360A1A		S28701	COCKPIT	2002FA0000673	
	ILOTS PUSH TO TA	ALK SWITCH.				
CESSNA 172R	LYC		SWITCH	INOPERATIVE	04/15/2002	517
	IO360A1A CE THE PILOTS PU	SH TO TALK SWITCH	S28701	COCKPIT	2002FA0000674	
CESSNA	LYC	011 10 111211 0 1111011	ACTUATOR	CRACKED	04/22/2002	
172RG	O360F1A6		12810013	LANDING GEAR	AUS20020386	
		KED. FOUND DURING		01-2. SEE MDR 02/0385 FOR SIN		
CESSNA 182K	CONT O470R		CARBURETOR 1048931	MISREPAIRED ENGINE	04/05/2002 AUS20020410	
		LLOWING ENGINE C		VAS FOUND TO BE RUNNING I		ID MIXTURE
ADJUSTMENT W	OULD NOT CORR	ECT THE FAULT. CAR	BURETOR WAS DISMA	ANTLED AND THE FOLLOWING	G DEFECTS DISCOVERI	ED:- 1. MAIN
				RING PIN SPRING UNSERVICE		
				THROTTLE SHAFT5. FLOAT BI OR WAS NEWLY OVERHAULEI		
SYSTEMS ON FA		I LIT TING OSED IN EI	NKAGE CARBUKETTO	K WAS NEWET OVERHAULED	D BT CONSOLIDATED	FOEL
CESSNA	CONT		WINDSHIELD	MISMANUFACTURE	04/03/2002	
182Q	O470U		07135381	COCKPIT	AUS20020454	
				GHT OF THE SCREEN WAS TOO DBLEMS. BOTH SCREENSWER		
	S. MANUFACTURI		EEN HAD SIMILAK PKO	OBLEMS. BOTH SCREENSWER	E GENUINE MANUFAC	TUKEK
CESSNA	CONT	avo Entroit.	HUB	CORRODED	04/17/2002	
188B	IO520D		D5858C402	PROPELLER	AUS20020434	
		ED IN AREA OF BLAD	E SOCKETS AND ON S		05/02/2002	220
CESSNA 206CESSNA	LYC TIO540AJ1A		GASKET MS913401	LEAKING ENGINE	05/02/2002 2002FA0000676	328
		OF ENGINE OIL LEAD		IC ENGINE FAILURE. AIRCRAF		FIELD.
		O BACK AND REPLA				
CESSNA	PWA	CESSNA	LATCH	LOOSE	05/29/2002	
208B	PT6A114A	26012014	260120413	LATCH AS IN A TURN OVER THE TARG	CA020529005	ADD AN
				RATION BECAME INTERMITTE		
				E FORWARD CARGO POD DOC		
				ADJUSTED TO ENSURE A POSI		RAFT WAS
	SERVICE. THE OTH	IER C208B AIRCRAFT		D FOUND TO BE SERVICEABLE		
CESSNA 310R			OIL COOLER 635996	DAMAGED ENGINE	04/14/2002 2002FA0000669	
	COOLER WAS OV	ERHAULED. PROBLE		R THE OIL TEMP PROBE WAS 4		ED OR GONE.
THIS AREA WAS	NOT INSPECTED			INSTALL OIL TEMP PROBE. RE		
OVERHAUL COL		CONT	DD 1 CVVV	CD + CWES	0.4/4.4/2002	
CESSNA 340CESSNA	CONT TSIO520K	CONT TSIO520K	BRACKET 633129	CRACKED RECIPROCATING	04/14/2002 AUS20020433	1632
				MENTBRACKET BROKEN ALLO		
	M THE MANIFOLD					
CESSNA	CONT		FITTING	CRACKED	05/17/2002	
402C	TSIO520VB	ING FITTINGS OF ACT	08113508 KED. FOUND DURING	WING, MISCELLANE	AUS20020455	14201
(AUS) LII AND K	II LOWER STUD W	THO FIT TINUS CRAC	LLD. FOUND DUKING	INDITINGI ECTION.		

CESSNA	CONT		CONTROL	MISRIGGED	05/10/2002
402C	TSIO520VB	CED BIREVERGE		AILERON TAB	AUS20020452
(AUS) AILERON CESSNA	CONT	GGED IN REVERSE. PRESTOLITE	NUT	MISSING	05/07/2002
421C	GTSIO520L	ALV9401	632436	DC	AUS20020495
				PLIT PIN WAS STILL INTACT. S TAMINATION OF THE	USPECT NUT SPLIT AND FELL OFF.
CESSNA	NG CONTACTED E	NOINE DRIVE GEARS	HYDRAULIC	CRACKED	05/28/2002
650	WED DEMNIS AN	ADEL CLAND ACTION	6207023202	HYD SYSTEM	2002FA0000678
					MP WAS REMOVED FROM LINE. 5207021-152 WERE REMOVED AND
		SION AND PITTING.	O OTHER HTDRAGER	2 EINES, 1/IN 020/025-154 /IND	20/021-132 WERE REMOVED AND
CESSNA	ALLSN	CESSNA	HINGE	CRACKED	04/17/2002
750 (CAN) A CRACK	AE3007C OF O 30" WAS FOU	750 IND IN THE INBOARD	SIDE OF THE HINGE B	FWD TRAILING EDG RACKET LOCATED IN THE FOR	CA020607001 WARD FROM THE TRAILING
EDGEUNDER ST	IFFENER.				
CESSNA A185F	CONT IO520D		CYLINDER 654961C	WORN ENGINE	04/27/2002 CA020510016
		ε PARAMETERS WERE		4.1 HRS OF OP, A CYLINDER DI	
					RS OF OP, A 2ND DIFFERENTIAL
				NDERS SHOWED EXHAUST VA	LVE LEAKS. TCM WAS E CYLINDERS WERE REPAIRED &
				E POWER IN ALL FLT CONDITION	
CESSNA	CONT	,	PULLEY	BROKEN	05/22/2002
A185F	IO520D	CODIANDING LEET E	0512128	TE FLAPS	CA020530008 TIT UP. PILOT SELECTED FLAPS
UP. AND LANDI		OR LANDING, LEFT FI	LAP WOULD NOT COM	IE DOWN. AIR PRESSURE KEPI	II UP. PILOT SELECTED FLAPS
CESSNA	CONT		FORK	CRACKED	05/16/2002
A185F	IO520D	HAVE TWO CDACKS I	6960298	MLG S LONG LOCATED ON THE AFT	CA020523017
( - )					OLES. ONE OF THE CRACK HAD
GONE BEYOND		02 01 1112 1 01111 1 011	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
CESSNA	CONT		HINGE	CRACKED	05/17/2002
U206B (CAN) AILERON	IO520F BRACKETS WERE	ELOOSE ON SPAR AND	122005311 DIN SKIN ATTACH UP	LT & RT AILERONS ON EXAMINATION FOUND BOT	CA020530010 TH BRACKETS CRACKED AT REAR
,					BY SUBSTITUING CHERRY MAX
		DID NOT SOLVE PROF		ON HINGE BRACKETS P/N 12200	
CESSNA U206F	CONT IO520F		HINGE 122005311	CRACKED CONTROL SURFACE	05/14/2002 CA020529003
		ATTACH FLANGE DUR			AIRWORTHINESS PROGRAM.THIS
		E. ALSO FOUND RIGH	T HAND INBOARD HIN	IGE CRACKED. OUTBOARD LEI	FT HAND HINGE HAD BEEN
RECENTLY REP CESSNA	LACED. CONT	CONT	SPARK PLUG	BROKEN	05/06/2002
U206G	IO520F	IO520F	URHB32E	CYLINDER	CA020515003
				D LOWER SPARK PLUG ON NR	
WITH THE OUTS CESSNA	SIDE OF THE CYLI CONT	NDER. REMAINDER O CONT	F SPARK PLUG WAS F EXHAUST	OUND HANGING ON THE LEAD FAILED	D. SPARK PLUG WAS REPLACED. 04/30/2002
U206G	IO520F	IO520F	SA52000	RECIPROCATING	AUS20020421
			ESTIGATION FOUND E	ROSION AROUND THE HEAD O	F THE EXHAUST VALVE AS WELL
AS LEAKING AT CESSNA	THEVALVE SEAT CONT	SEALING FACE. CONT	EXHAUST	LEAKING	04/15/2002
U206G	IO520F	IO520F	LAHAUSI	RECIPROCATING	AUS20020423 441
				OURS SINCE FACTORY REMAN	
CESSNA U206G	CONT IO520F	CONT IO520F	VALVE GUIDE 643767	FAULTY RECIPROCATING	04/19/2002 AUS20020462
		ALVE STICKING IN V		RECII ROCATINO	AU320020402
CESSNA	CONT	CONT	FITTING	LOOSE	05/10/2002
U206G	IO520F	IO520F	WING FIEL TO DIM F	ENGINE DRAINS	AUS20020481 AIN LINE AND DRIP ONTO THE
EXHAUST.	IDUCTION DRAIN	TII TING LOOSE ALLO	WING FUEL TO KUN L	OWNTHE OUTSIDE OF THE DK	AIN LINE AND DRIF ONTO THE
CESSNA	CONT	MCAULY	CABLE	FAULTY	05/18/2002
U206G	IO520F	D3A34C404	D	PROPELLER	AUS20020482
DIAMON	ROTAX	TER CABLE STRETCHE	D. NEEDLE	WORN	05/13/2002
DA20A1	ROTAX912		961215	CARBURETOR	CA020514002
		OR NEEDLE POSITION	WAS FOUND TO BE W		0.4/1.2/2002
DIAMON DA20A1	ROTAX ROTAX912F3		ENGINE	FAILED NACELLE	04/12/2002 CA020507003
		OT CYCLING DURING	RUN-UP, ALL INDICA		TTEMPTED RUN-UP & TRIED TO
				NEMAN INCREASED THROTTL	
				EIZED AT IDLE. LINEMAN SUBS ONTRACTOR ARRIVED & PROC	EEDED TO INSPECT THE ENGINE.
					, ALUMINUM & STEEL IN THE OIL
FILTER. ENGINE	REMOVED FOR T		H RESARCH CANADA.	~	
DIAMON DA20A1	ROTAX ROTAX912F3		NEEDLE 961215	WORN CARBURETOR	05/10/2002 CA020514003
		OUND TO BE WORN TO		CAMBURETOR	C/1020314003
GIPPLD	LYC	SLICK	BEARING	MISOVERHAULED	04/24/2002
GA200	IO540K1A5	6330 CORRECTI V ASSEMBI	ED ROTOR HARD TO I	MAGNETO ROTATE. COIL FAULTY.	AUS20020422
(AUS) KI MAGN	LIO DEAKING INC	OKKECTET ASSEMBL	LD. KUTUK HAKD IUI	OTATE COLL PAULT.	

GULSTM	GARRTT		SHOE	DIRTY	04/17/2002	
690	TPE3315251K	HOE HAD DIME OF STR	9937	NLG STEERING	CA020507008	HAVE BEEN
				AUSING MORE DRAG THEN NE STEERING CORRECTION WAS		
			RASS. AIRCRAFT SUFF		MADE AND STEERIN	d COOLD NOT
LEAR		LEAR	CLEVIS	FAILED	05/15/2002	
45LEAR		66323030043	4532303016001	MLG UPLOCK	CA020517006	
,				ED GEAR UP. MAIN LANDING BACK LANDING AT IT'S MAIN		,
				K ASSY HAD'NT RESET TO IT		
		ERVICEABLE ON GROU				
NEWZE	LYC		BOLT	BROKEN	04/22/2002	
FU24A954 (AUS) MAIN LA	IO720A1B NDING GEAR TOR	OUE LINK BOLT FAIL	AN626A FD LOWER HALF OF (	MLG DLEO STRUT, TORQUE LINKS,	AUS20020418 AXLE AND WHEEL AS	SEMBLY
POPPEDOUT AF		QUE ENVIR BUET TIME	ED. LOWER HALF OF	DEED STROT, TORQUE ERINGS,	TARLETTIND WITELETT	JOENIDE 1
PAC	CONT		VENT	FOD	04/26/2002	
CT4B	IO360HB	LIDE DIGOMBI ETELV	DEMOVED DUDBIG M	BATTERY/CHARGE	AUS20020415	ODGED BI
			NEMOVED DURING MA NE. PERSONNEL/MAIN	AINTENANCE. THE LOOSE TUI NTENANCE ERROR	BE MOVED AFT AND L	ODGED IN
PIPER	LYC		ENGINE	MALFUNCTIONED	04/11/2002	
PA25150	O320A2B			NACELLE	AUS20020483	
(AUS) ENGINE F PIPER	REMOVED FOR INV CONT	VESTIGATION INTO LO	OW OIL PRESSURE ANI EXHAUST	D HIGH OIL TEMPERATURE.  DAMAGED	04/17/2002	1045
PA28151	IO550B		EARAUSI	ENGINE	2002FA0000681	1043
NR 2 EXHAUST	VALVE HEAD MIS			HED AWAY). TRACED TO EXC	ESSIVE VALVE STEM/C	
				HAVE EXCESSIVE WEAR, REQ		
WITHIN LIMITS.		TI OF TBO. PLANE WA	S 2 MONTHS SINCE LA	ST ANNUAL AND AT THAT TI	ME STATIC COMPRESS	SIONS WERE
PIPER	LYC		RIB	CRACKED	05/03/2002	
PA28151	O320E3D		3539200LH	AILERONS	AUS20020447	
(AUS) LT AND F PIPER	RT AILERON RIBS	PN 35392-00 (LT) AND	PN 35392-01 (RT) CRAC CIRCUIT	CKED ALONG RADIUS OF FROM FAILED	NT FLANGE. 05/10/2002	7620
PA28161			W58X10095	ELECTRICAL SYS	2002FA0000679	7620
	NOT USED FOR A	PPROXIMATELY (7) M		AS TIED DOWN OUTSIDE, NEAR		ONMENT.
				ON FOUND CORROSION ON B		
				RICAL EQUIPMENT BEGAN TO BMU WARNING. FOUND CIRCU		
EACH OF THESI		ADIO, LIGHTS, TAND	b, AUTO FILOT AND S	MU WARNING. FOUND CIRCO	II BREAKERS DEFECT	IVEFOR
PIPER	LYC		STUD	BROKEN	05/07/2002	
PA31	TIO540A2B	DED ADTED MAD ON A	3813	CYLINDER	CA020508016	E CDEW
				G FLIGHT TO YYJ. ABOUT 15 M OF THE COWLING, AND ELECT		E CREW
				CIDENT. INVESTIGATION REV		INCH
				AD FAILED JUST BELOW THE O		
				E OF THE OTHER 3 STUDS ON		
PLACE.	SEATING THE BAS	E SEAL AND RELEASI	ING OIL. THE LOWER S	STUDS WERE ALL INTACT AN	D HOLDING THE CYLI	NDEK IN
PIPER	LYC	PIPER	SOLENOID	FAULTY	05/03/2002	
PA31	TIO540A2B	487155	L3011	LANDING GEAR SEL	AUS20020466	T 4 377
		. SOLENOID STRIKER LLER AND AIRFRAMI		ING GEAR INADVERTANTLY	RETRACTED DURING	TAXI
PIPER	LYC	ELLIC TIND THE RETURN	SKIN	CRACKED	05/14/2002	10480
PA31	TIO540A2B			FUSELAGE	CA020527009	10480
				ACKETS. INSPECTION REVEAL CE MANUAL AND AC 43-13-1E		
	WERE AVAILABLI		C SD AND FIFER SERVI	CE MANUAL AND AC 43-13-16	0/2A FIG 4-10. ALL PAR	13 KEQUIKED
PIPER	LYC	•	SUPPORT	CRACKED	05/17/2002	
PA31325	TIO540F2BD	DEL CELUE DI ATTE CICITE D	764028	BULKHEAD	CA020522000	THE CANE
				D CRACKED AT AFT FUSELAG TE IS A PART OF PIPER KIT 76		
		CE INSTALLATION.	KEIN OKCEMENT IEA	TE IS ATTACT OF THE KIT A	94 020 INSTALLED CIVI	DLR /1D/0-12-
PIPER	LYC		COUPLING	CRACKED	03/26/2002	
PA31350	LTIO540J2BD	C OF HIGHER THAN N	MVT69183200	EXHAUST PIPE	CA020503003	DE COLIDI INC
				TION, (CAUSED BY MAGNETO REMOVED FOR DETAILED IN		IFE COUPLING
				RFACE OF THE MIDDLE SEGM		
PIPER	LYC	LYC	VALVE	FAILED	05/16/2002	
PA31350	LTIO540J2BD	LTIO540J2BD URE VALVE (VERNAT	SL53E19600	ENGINE OIL TEMPE	AUS20020460	1800
PIPER	LYC	ORE VALVE (VERNAT	STRUCTURE	CRACKED	05/06/2002	
PA31350	TIO540J2BD		17689	FUSELAGE, WING A	AUS20020431	
		ENT STRUCTURE LH	AND RH SIDE CRACKE		05/10/2002	
PIPER PA31350	LYC TIO540J2BD		TRANSMITTER 550697	DETERIORATED FUEL QUANTITY SE	05/10/2002 AUS20020444	
		STEM FLOAT VALVE D		SINGCONTAMINATION OF THE		UEL FILTER.
PIPER	LYC		PISTON	DAMAGED	04/12/2002	
PA31350 (AUS) RT ENGIN	TIO540J2BD JE VIBRATION CR	ANKCASE PRESSIDIS	L16068A SED AND OIL VENTED (	NR 3 CYLINDER OVERBOARD. ENGINE SEIZED	AUS20020416 ON SHUTDOWN INVE	STIGATION
		NR 3 CYLINDER PISTO		, ERDOTRD, ENGINE GEIZED	CIT SITO I DO WIN. IN VI	

July 2002					1717171	
PIPER PV	WA		BOLT	SHEARED	05/01/2002	
	γ Г6А135		AN517A	LT MLG	CA020510019	
(CAN) ON APPROAC	CH THE LANDING		TED DOWN, THE RIGH	T MAIN & NOSE GEAR LOCK	ED DOWN CORRECTLY	
			GENCY GEAR EXTEN	SION AND LANDED SAFELY.	UPON INSPECTION TH	E LEFT
ACTUATOR UPPER DIPER LY	BOLT WAS FOUN YC	D TO BE SHEARED.	SKIN	CRACKED	05/03/2002	
	)540K1A5		DIVIN	WING	CA020508015	
(CAN) THE AIRCRA	FT WAS STORED			D FLOWN TO TORONTO IN A	PRIL FOR ITS ANNUAL	
				HT INCHES, DUE TO SLIPSTR		
				RESULT OF WING FLEXING D IOULD BE INITIATED.	UKING FLIGHT. THERE	ARE OTHER
	YC	A 30 A MORE TREQ	FITTING	BROKEN	05/02/2002	
PA34200 IC	0360C1E6		67031002	LANDING GEAR	AUS20020424	
· /	AR RETRACTION	FITTING BROKEN. I		D IN THE UP' POSITION.	0.510.410.00	
PIPER PA34200T			RIVET	LOOSE HORIZSTAB	05/01/2002 2002FA0000677	2780
	RIGHT STABILIZ	ZER TRIM SURFACES	S THE RIVETS HOLDIN	G THE BRACKET FOR THE TR		E LOOSE IN
THE EXISTING HOL						
	ONT		CYLINDER	CRACKED	05/13/2002	
	SIO360EB	OUND CIDCUMEEDE	CL66P15	ENGINE AD ATTACH AREA. 90 PERCE	CA020521005	
· /	WA	JUND CIRCUMPERE	ENGINE	MAKING METAL	02/11/2002	
	Γ6Α20		PCE22284	NACELLE	AUS20020474	
	GING. INVESTIGA	TION FOUND META	L CONTAMINATION C		05/15/0600	2075
PIPER PA46310P			VALVE 474142	BROKEN DEICE SYS	05/15/2002 2002FA0000682	3975
	PERATIVE FOUN	D AIRBORN MANIFO	474142 DLD VALVE BROKEN I		2002FA0000082	
		IPER	SHAFT	CRACKED	05/13/2002	
		50022001	450022002	NOSE/TAIL LANDIN	AUS20020457	
(AUS) NOSE LANDII SKRSKY	NG GEAR STRUT	TORQUE TUBE SHAI	FT CRACKED FROM B TRANSCEIVER	OLT HOLE. FOUND DURING N MALFUNCTIONED	MAGNAFLUX INSPECTI 05/20/2002	ON.
S76A			064100900	COCKPIT	HEEA078711	
	EIVES GARBLED	PERFORMED PRELI		I. FOUND RECEIVER VERY W		EIVER. NO
				ITS. SWAPPED CR309 AND CI		AND C324
				CAPACITOR. ALIGNED I F, N		E DEDI ACED
				GOOD, BUT COULD NOT ADJU REPLACED 1304 IC CHIP AN		
REPAIRED. BENCH		IIVO D'INOIVO. REI E	TICED Q30 TRESISTOR	. REFERENCED 130 FIG CITIF THA	D REFERENCED RECEIVE	LIC.
SKRSKY			BEARING	WORN	05/20/2002	
S76A	DING HAC WODN	TEELON DEDLACE	SB5200103	SWASHPLATE	HEEA078716	
SKRSKY	KING HAS WORN	TEFLON. REPLACEI	D WITH SERVICEABLE BEARING	E BEARINGS. WORN	05/20/2002	
S76A			SB5200102	SWASHPLATE	HEEA078717	
	HING WORN. REP	LACED WITH SERVI	ICEABLE BEARINGS.			
SKRSKY			BEARING	WORN	05/20/2002	
S76A SWASHDI ATE REAI	RING HAS WORN	TEELON REPLACED	SB5200103 D WITH SERVICEABLE	SWASHPLATE FREARINGS	HEEA078718	
SKRSKY	KING II IS WORK	TELEON. RELEACE	BLADE	CRACKED	05/20/2002	14894
S76A			7615009100051A	MAIN ROTOR	HEEA078719	
BLADE SKIN CRACI	KED ON LOWER S	SURFACE NEAR THE		DAMAGED	0.5 (0.0 (0.0 0.0	12770
SKRSKY S76A			BLADE 7615009100051A	DAMAGED MAIN ROTOR	05/20/2002 HEEA078720	13778
	EDGE STRIP IS CO	MING OFF AFTER B	EING REPAIRED ONL		HEEA0/0/20	
SKRSKY		,	BLADE	MISMANUFACTURE	05/20/2002	5266
S76A			7615009100053	MAIN ROTOR	HEEA078721	
	DE MISMANUFAC	TURED, UNABLE TO	BALANCE. TOO HEAV ANTI-ICE		05/20/2002	
SKRSKY S76A			ANTIFICE	MALFUNCTIONED BELLMOUTH	US/20/2002 HEEA078722	
	S UP BUT WILL N	OT EXTINGUISH AN	TI ICE CAUTION LIGH	T. SENT TO VENDOR FOR REF		
SKRSKY			BUSHING	LOOSE	05/20/2002	
S76A	SEMBLY LEVERS	WORN AND DUCTE	NGC I OOCE CODADDE	FRICTION LEVER D AND REPLACED WITH SER	HEEA078723	
SKRSKY	SEMIDET LEVERS	WOWN AIND BOSHII	NGS LOOSE. SCRAPPE BELLCRANK	D AND REPLACED WITH SER WORN	05/20/2002	
S76A			7640003210043	TAIL ROTOR	HEEA078724	
	CRANK HAS WOR	N BEARINGS. REPLA	ACED WITH SERVICE	ABLE BELLCRANK.		
SKRSKY			POWERPACK	MALFUNCTIONED BOTOR BRAKE	05/20/2002	
S76A ROTOR BRAKE CAL	ITION LIGHT DOE	ES NOT ILLUMINATE	7665009803103 EWHEN ROTOR BRAK	ROTOR BRAKE E IS SWITCHED ON. RETURNI	HEEA078731 ED TO VENDOR FOR RE	EPAIR
SKRSKY		ALLOWING THE	SCREW	STRIPPED	05/20/2002	
S76A				GPS ON/OFF KNOB	HEEA078735	
				ULD NOT DUPLICATE PROBL	EM. FOUND SEVERAL	BUTTONS
UNREADABLE AND SKRSKY	FOUND SET SCE	EW ON/OFF KNOB S	STRIPPED. REPAIRED. GPS	BENCH CHECK GOOD. MALFUNCTIONED	05/20/2002	
S76A			8143902240B	COCKPIT	HEEA078736	
WILL NOT HOLD CO			NARY INSPECTION. FO	OUND BATTERY DEAD AND (	CORROSION ON BOARI	
			D L212 COIL BROKEN.	ALSO DISPLAY IS BLURRY A	AND MISSING ON/OFF I	NOB. SENT
TO ASM FREEFLIGH SKRSKY	11 FOR INSPECTION	JN AND REPAIR.	MIXERBOX	MALFUNCTIONED	05/20/2002	
SKRSK I S76A			PHI20004	CABIN	HEEA078742	
BLEED OVER TO OT			HOUT SWITCH SELEC	TED. PERFORMED PRELIMIN		ND SWITCH
S1 AND SELECTOR	KNOB BAD. REPI	LACED AND REPAIR	ED. BENCH CHECK G	OOD.		

S76A	SKRSKY		GPS	MALFUNCTIONED	05/24/2002	
VENDOR FOR REPAIR  KSRSKY 76.20  576.						
SKRSKY RELAY FROZEN 05:30:2002 STORA 76:50:00002101 ELECTRICAL IIEEA079356 SUSPECTED NOT LATCHING PROPERLY AND STUD AT POSITION 21 FROZEN IN PLACE. SCRAPPED. SKRSKY ALLSN VALVE STUCK SKRSKY ALLSN VALVE STUCK STORA 2:00:20 20:00:	GPS DOES NOT	DRIVE YELLOW NEEDLE ON HSI IN CA	AL MODE. UNABLE TO	CHANGE FUEL FROM GALL	ONS TO POUNDS. TO BE	E SENT TO
STAGE   SUSPECTED NOT LATCHING PROPERLY AND STUDAT POSITION 2   FERENZEN IN PLACE. SCRAPPED		EPAIR.				
SUSPECTED NOT LATCHING PROPERLY AND STUD AT POSITION 21 PROZED IN PLACE. SCRAPPED SKRSKY ALLSIN 2007827 STORA 250C30 250C						
SKRSKY		TI ATCUDIC PROPERLY AND CTUD A			HEEA079336	
STOAD   250-C230					05/20/2002	
SOLENDI VALUE STUCK OPEN REPLACED WITH SERVICEABLE VALUE						
SKRSKY   ALLSN   FUEL CONTROL   SURGES   05/20/2002				ENGINE	ПЕЕАU/8/13	
S76A   2.90(2.90S   2.549025   NR 2. ENGINE   IIEEA078714     NR 2. ENGINES (EGS. TISTED UNIT AS RECEIVED AND COULD NOT DUPLICATE PROBLEM. UNIT TESTED     SKRSKY   TMECA				SURGES	05/20/2002	1689
NR 2 ENGINE SURGES. TISSTED UNIT AS RECEIVED AND COULD NOT DUPLICATE PROBLEM. UNIT TESTED SKRSKY MECA  ARRIELIS  4 ARRIELIS  4 ARGEALIS  5 ARGEALIS  6 ARGEALIS  7 ARGEAN  7 ARG						100)
SKRSKY   TMECA						
ALISI RH MAIN LANDING GEAR DOWN' HYDRAULIC HOSE LEAKING, LOSS OF HYDRAULIC FLUID   SKRSKY MECA   FLECTRICAL   FAULTY   0.509/2002   ST6A   ARRIELIS   DC GENERATING SY AUS2002032   ST6A   ARRIELIS   DC GENERATING SY AUS2002032   ALISIO CORDERATING SYSTEM FAULTY, INVESTIGATION COULD FIND NO CAUSEFOR TILE PROBLEM BUT THE FOLLOWING ITEMS REPLACED: 1, NOZ ENGINE STARTER-GENERATOR 2. NOZ GENERATOR CONTROL UNIT 3. NOI AND NOZ TRIPLE TACHO INDICATOR GENERIC STORY OF THE STARTER CONTROL UNIT 3. NOI AND NOZ TRIPLE TACHO INDICATOR GENERIC STORY OF THE STARTER CONTROL UNIT 3. NOI AND NOZ TRIPLE TACHO INDICATOR GENERIC TO SERVO   WORN   0.5/20/2002   ST6C   766-5009807101   MAIN ROTOR   HEFA078732   MAIN ROTOR SERVO HAS WORN UPPER BEARING TO BE SENT TO VENDOR FOR REPAIR.   SKRSKY   TMECA   SERVO   UNSERVICEABLE   0.429/2002   SKRSKY   TMECA   SERVO   UNSERVICEABLE   0.429/2002   ST6C   ARRIELIS   GPS   DAMAGED   0.5/16/2002   SA3536B   ARRIELIS   GPS   DAMAGED   0.5/16/2002   SA3536B   ARRIELIS   GPS   DAMAGED   0.5/16/2002   SA3536B   ARRIELID FOUND SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS. REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHEEKE GOOD. SNIAS   TMECA   TRANSDUCER   FALLED   0.5/16/2002   SNIAS   TMECA   TRANSDUCER   FALLED   0.5/16/2002   SNIAS   TMECA   TRANSDUCER   FALLED   0.5/16/2002   SNIAS   TMECA   ENGINE   MALPUNCTIONED   0.5/16/2002   SNIAS   SERVO   LEAKING   0.5/16/2002   SNIAS   SRIAS   S						
SKRSKY TMECA STORA ARRIELIS STORA ARRIELIS STORA ARRIELIS STORA ARRIELIS AR	S76A	ARRIEL1S	48CT3A136000	LANDING GEAR	AUS20020419	
ARBIELIS (AUS) DE GENERATING SY EM FAULTY, INVESTIGATION COULD FIND NO CAUSEFOR THE PROBLEM BUT THE FOLLOWING ITEMS REPLACED- 1, NOZ ENGINE STARTER/GENERATOR 2 NOZ GENERATOR CONTROL UNIT 3, NOI AND NOZ TRIPLE TACHO INDICATOR REPLACED- 1, NOZ ENGINE STARTER/GENERATOR 2 NOZ GENERATOR CONTROL UNIT 3, NOI AND NOZ TRIPLE TACHO INDICATOR REPLACED- 1, NOZ ENGINE STARTER/GENERATOR 2 NOZ GENERATOR CONTROL UNIT 3, NOI AND NOZ TRIPLE TACHO INDICATOR REPLACED- 1, NOZ ENGINE STARTER/GENERATOR 2 NOZ GENERATOR CONTROL UNIT 3, NOI AND NOZ TRIPLE TACHO INDICATOR REPLACED- 1, NOZ ENGINE STARTER/GENERATOR 2 NOZ GENERATOR CONTROL UNIT 3, NOI AND NOZ TRIPLE TACHO INDICATOR REPLACED- 1, NOZ ENGINE STARTER/GENERAL 2 NOZ GENERAL 2 NO SERVICE RANGE SERVO WORN NOT NOT SERVICE MAIN ROTOR SERVO HAS WORN UPPER BEARING TO BE SENT TO VENDOR FOR REPAIR. SKRSKY THECA SERVO WORN REPAIR. STAGE A RAISELIS STAGE A RAISELIS STAGE A RAISELIS GENERAL SERVO FAULTY. SINIAS THE CALL SERVO FAULTY. SINIAS SERVO THE AND SERVO FAULTY. SINIAS THE CALL SERVO FAULTY. SINIAS SERVO THE AND SERVO FAULTY. SINIAS SERVO THE SERVO FAULTY. SI						
(AUS) DC GENERATING SYSTEM FAULTY. INVESTIGATION COULD FIND NO CAUSEFOR THE PROBLEM BUT THE FOLLOWING ITEMS REPLACED-1, NOZ ENGINE STRATERE/GENERATOR 2. NOZ GENERATOR CONTROL UNIT 3. NOI AND NOZ TRIPLE TACHO INDICATOI ENGINE TS GAUGE SUSPECT CAUSED BY A VOLTAGE SPIKE.  SERVO  FOR SOME SERVO WORN  SERVO  FOR SOME SERVO WORN  SERVO  FOR SOME SERVO WORN  SERVO  FOR SERVO WORN  FOR SERVO WORN  SERVO  FOR SERVO  SOTORCRAFT  SERVO  SOTORCRAFT  SERVO  SOTORCRAFT  HEEAO787272  FACEDITATE SEPARATED. FOUND SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS, REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD.  SINIAS TMECA  SASSOB ARRIEL IDI  STREAMTED FALLERS SYITH AMBER GOVERNOR CAUTION LIGHT COMING ON.  SINIAS TMECA  SERVO  SOTORCRAFT  MALFUNCTIONED  SINIAS TMECA  SERVO  SERVO  SOTORCRAFT  MALFUNCTIONED  SINIAS  MECA  SERVO  S			ELECTRICAL			
REPLACED- 1. NO2 ENGINE STARTER, GENERATOR 2. NO2 GENERATOR CONTROL UNIT 3. NO1 AND NO2 TRIPLE TACHO INDICATOL ENGINE TS CAUGE SUSPECT CAUSED BY A VOLTAGE SPIKE.  SERSON  SERVO  SERVO  WORN  05/20/2002  STOCK  TOS SERVO HAS WORN UPPER BEARING. TO BE SENT TO VENDOR FOR REPAIR.  SKRSKY TMECA  SERVO  MAIN ROTOR SERVO HAS WORN UPPER BEARING. TO BE SENT TO VENDOR FOR REPAIR.  SKRSKY TMECA  SERVO  MAIN ROTOR CONTROL SYSTEM SERVO FAULTY.  SINAS  SERVO  ARSIEL IS  AVERAGE SERVO  ARSIEL IS  OS/16/2002  ROTORCRAFT  AUS20020420  A						
ENGINE TS GAUGE SUSPECT CAUSED BY A VOLTAGE SPIKE.  SERVO  FOR SORRY  SERVO  FOR SORRY  FOR SORRY  FOR SORRY  FOR SORRY  FOR SORRY  FOR SERVO  FOR REPAIR  SKRSKY  FOR ARRIEL IS  FOR SORRY  FOR SERVO  FOR STOCK						
SKRSKY				NTROL UNIT 3. NOT AND NO	2 TRIPLE TACHO INDIC.	ATORS4. NO2
AND ROTOR SERVO HAS WORN UPPER BEARING. TO BE SENT TO VENDOR FOR REPAIR.  SKRSKY THECA SERVO  SREVO UNSERVICEABLE 04-29-2002  ARTHELIS 78-26-002  ROTORCAFT  ARTHELIS 78-26-002  ROTORCAFT  ALSO2002402  ROTORCAFT  ALSO2002402  ROTORCAFT  ALSO2002402  ROTORCAFT  ALSO2002402  ROTORCAFT  ALSO2002402  ROTORCAFT  ALSO2002402  ROTORCAFT  BEAG79272  ALSO2002402  ROTORCAFT  BEAG79272  BEAG79272  BEAG79272  BAMGED 05-16-2002  SIASS BASS BASS BASS BEAG BEAG BEAG BEAG BEAG BEAG BEAG BEAG		GE SUSPECT CAUSED BY A VOLTAGE		WODN	05/20/2002	
MAIN ROTOR SERVO I LAS WORN UPPER BEARING. TO BE SENT TO VENDOR FOR REPAIR.  SERSO UNSERVICEABLE 04/29/2002 STOCC ARRIELIS 78/26/002 ROTORCRAFT AUS200/20420 : 10/2007 STOCK ARRIELIS 78/26/002 ROTORCRAFT AUS200/20420 : 10/2007 ACIUS) TAILR OTOR CONTROL SYSTEM SERVO FAULTY.  SNIAS GPS AS350B TO DAMAGED SIA STOCK STORY SIA SERVO COCKPIT HEEAOT9272 AS350B ARRIEL DE FOUND SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS. REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD.  SNIAS TMECA THE SENDER FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD.  SNIAS TMECA SERVER SERVER SOME SERVER SOME SIA SERVER SOME SIA SERVER						
SKRSKY TMECA SERVO UNSERVICEABLE 04-29/2002 S756C ARRIELIS 78/2002 ROTORCRAFT ALUS20020420 : (AUS) TAIL ROTOR CONTROL SYSTEM SERVO FAULT. SING SMAS ARRIELIS 78/2002 BOTORCRAFT ALUS20020420 : (AUS) TAIL ROTOR CONTROL SYSTEM SERVO FAULT. SING SMAS AS360B BARGE CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD. SAS360B ARRIELD FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD. SAIAS TMECA TERM STREAM SERVOLL AND SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD. SAIAS TMECA THE STREAM SERVOLL AND SET SCREWS OF THE AUS STREAM SET SCREWS DRILLED OUT. REPLACED LE KNOBS REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD. SAIAS TMECA SAS360B ARRIELDI 95/16/2002 AS350B ARRIELDI 95/51/62/002 AS350B ARRIELDI STREAM SEVERAL ATTEMPTS TO START AFTER THE ENGINE IS RUN AND GETS WARMED UP. STARTS OK WHEN SMAS TARECA ATTEMPTS TO START AFTER THE ENGINE IS RUN AND GETS WARMED UP. STARTS OK WHEN SMAS ANTENNA CRACKED 05/16/2002 AS350B2 ARRIELDI SASSOBE SCREWS SCREWS SERVOL LEAKING 05/16/2002 AS350B2 SCREW SCREWS SCREWS MAIN ROTOR HEEA079274 VHF ANTENNA CRACKED AROUND BOLT HOLES. SCREWPED. SMIAS SERVO LEAKING. UNIVAR LYC THRUSTLINK CORRODED 05/08/2002 CASS SOBE SCREW SCREW SCREWS PROPELLER WAS OVERHAULED ON JULY 21, 1999. ON APRIL 19, 2000 THE PROPELLER WAS COVERHAULED ON JULY 21, 1999. ON APRIL 19, 2000 THE PROPELLER WAS REMOVED FORM THE BEARINGS ON SOBE OF THE PROPELLER WAS CONDELED ROTHER START SOL ON JUNE 29, 199 WAS COMPLETED AND THE PROPELLER INSTALLED ON JULY 21, 1999. ON APRIL 19, 2000 THE PROPELLER WAS REMOVED FORM THE BEARINGS ON DITHE PROPELLER WAS REMOVED FORM THE BEARINGS ON SUBJEC		ERVO HAS WORN LIPPER REARING TO			HEEAU/0/32	
STOC ARRIELIS 782-0002 ROTORCRAFT AUS20020420 : (AUS) TAIL ROTOR CONTROL SYSTEM SERVO FAULTY.  SNIAS 16PS DAMAGED 516/2002 S16/2002 S14/3802240D COCKPT HEEA079727 FACEPLATE SEPARATED FOUND SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD.  SNIAS TMECA THE AND ALL BUTTONS. BENCH CHECK GOOD.  SNIAS TMECA SS30B ARRIELDI STORM SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD.  SNIAS TMECA SS30B ARRIELDI STORM SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS TO STORM SET					04/29/2002	
(AUS) TAIL ROTOR CONTROL SYSTEM SERVO FAULTY.  SINIAS  SIAS BOB  SIA SS02240D  COCKPIT  HEEA079272  FACEPLATE SEPARATED, FOUND SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS. REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD.  SNIAS  TMECA  TRANSDUCER  FAILED  O5/16/2002  SNIAS  TMECA  TRANSDUCER  MALFUNCTIONED  O5/16/2002  SNIAS  TMECA  STREILDI  O5/16/2002  SNIAS  TMECA  STREILDI  O5/16/2002  SNIAS  TMECA  TMECA  TMECA  TMECA  TMECA  TMECA  TRANSDUCER  MALFUNCTIONED  O5/16/2002  SNIAS  TMECA  SNIAS  TMECA  TMECA  SNIAS  TMECA  TMECA  TMECA  SNIAS  ANTENNA  CRACKED  O5/16/2002  DMC6534A  VHF SYSTEM  HEEA078707  DMC6534A  VHF SYSTEM  HEEA078707  VHF ANTENNA CRACKED AROUND BOLT HOLES. SCRAPPED.  SNIAS  SNIAS  SCSO83  MAIN ROTOR  SCSO83  MAIN ROTOR  HEEA079278  MAIN ROTOR SERVO LEAKING.  UNIVAR  LYC  THRUST LINK  CORRODED  O5/08/2002  CAON) THE PROPELLER WAS OVERHAULED ON JULY 18, 1996, WAS REMOVED FOR AD 97-18-02 WITH 42.4 HRS. TSO. ON JUNE 29, 199  WAS COMPLETED AND THE PROPELLER NSTALLED ON JULY 2, 1999, ON APRIL 19, 2000 THE PROPELLER WAS REMOVED FROM THE BAARNAS SOUND CORROSION IN ONE OF THE BEARINGS ON SIDE OF THE PROPELLER, AND EXTREME CORROSION ON THE BEARINGS SURFACES AND THE INNER SURFACE OF THE CLAMP ASSE  BOTH OF THE BEARINGS AND THE ORE CLAMP REQUIRE REPLACEMENT. WITH CORROSION IN THE BEARINGS SURFACES AND THE INNER SURFACE OF THE CLAMP ASSE  BOTH OF THE BEARINGS AND THE ORE CLAMP REQUIRE REPLACEMENT. WITH CORROSION IN THE BEARINGS OF THE CLAMP ASSE  BOTH OF THE BEARINGS AND THE ORE CLAMP REQUIRE REPLACEMENT. WITH CORROSION IN THE BEARINGS OF THE CLAMP ASSE  BOTH OF THE BEARINGS AND THE ORE CLAMP REQUIRE REPLACEMENT. WITH CORROSION IN THE BEARINGS OF THE CLAMP ASSE  BOTH OF THE BEARINGS AND THE ORE CLAMP REQUIRE REPLACEMENT. WITH CORROSION IN THE BEARINGS OF THE CLAMP ASSE  BOTH OF THE BEARINGS AND THE ORE CLAMP RE						340
SMIAS GPS DAMAGED 05/16/2002 A3336B A3350B ARRIELIDI DISTRICTORIO SMIAS ARRIELIDI NACELLE HEEA078707 EAGINE HEEA078707 BATTEN HEEA078707 BATTEN HEEA078707 BATTEN HEEA078707 BATTEN HEEA078707 BATTEN HEEA078708 BATTEN HEEA078707 HEEA079278 HEEA079279 HEEA07						
FACEPLATE SEPARATED, FOUND SET SCREWS ON KNOBS WOULD NOT COME OUT. HAD SET SCREWS DRILLED OUT. REPLACED LE KNOBS. REPAIRED. CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD.  SNIAS TMECA 1				DAMAGED	05/16/2002	
KNOBS, REPAIRED, CLEANED FACEPLATE AND ALL BUTTONS. BENCH CHECK GOOD.  SNIAS TMECA  ARRIELIDI  ASS30B ARRIELIDI  ARRIELIDI  ASS30B ARRIELIDI  ANCELLE  HEEA078707  HEEA078707  HEEA078707  HEEA078707  HEEA078707  HEEA078707  HEEA079274  HEEA079274  HEA079274  HEA079278  HEA079274  HEA0792	AS350B		8143802240D	COCKPIT	HEEA079272	
SMIAS TMECA TRANSDUCER FAILED 05/16/2002 AS350B ARRIELID1 9550166140 P3 PRESSURE HEEA078708 INTERMITTENT P3 FAILURES WITH AMBER GOVERNOR CAUTION LIGHT COMING ON.  SMIAS TMECA ENGINE MALFUNCTIONED 05/16/2002 AS350B ARRIELID1 NACELLE HEEA078707 ENGINE TAKES SEVERAL ATTEMPTS TO START AFTER THE ENGINE IS RIN AND GETS WARMED UP. STARTS OK WHEN SSMIAS ASSOBY DMC634A VHF SYSTEM HEEA079274 VHE ANTENNA CRACKED AROUND BOLT HOLES. SCRAPPED.  SSMIAS ASSOBY SCROWLE SCROW	FACEPLATE SE	PARATED. FOUND SET SCREWS ON KN	NOBS WOULD NOT CO	ME OUT. HAD SET SCREWS I	DRILLED OUT. REPLACE	ED LENS AND
AS\$50B ARRIELIDI 9.550166140 P.3 PRESSURE HEEA078708 INTERMITTENT P3 FAILURES WITH AMBER GOVERNOR CAUTION LIGHT COMING ON.  SNIAS TMECA ENGINE MALFUNCTIONED 0.5/16/2002 AS\$50B ARRIELIDI NERGINE NACELLE HEEA078707 AS\$60B ARRIELIDI ON THE PASALLE NERGINE IS RUN AND GETS WARMED UP. STARTS OK WHEN SNIAS ANTENNA CRACKED 0.5/16/2002 AS\$30B ARRIELIDI ON THE PASASSON ON THE PASASSON ON THE EA079274 VHF ANTENNA CRACKED AROUND BOLT HOLES. SCRAPPED SNIAS SEVERAL ATTEMPTS TO START AFTER THE ENGINE IS RUN AND GETS WARMED UP. STARTS OK WHEN SNIAS ANTENNA CRACKED AROUND BOLT HOLES. SCRAPPED SNIAS SERVO LEAKING. UNIVAR CRACKED AROUND BOLT HOLES. SCRAPPED SNIAS SERVO LEAKING.  LEAKING 0.5/16/2002 AS\$30B2 SC5083 MAIN ROTOR HEEA079278 MAIN ROTOR SERVO LEAKING.  LINIVAR LYC THRUST LINK CORRODED 0.5/08/2002 AS\$30B2 SC5083 MAIN ROTOR HEEA079278 MAIN ROTOR SERVO LEAKING.  LOCAN) THE PROPELLER WAS OVERHAULED ON JULY 18, 1996, WAS SEMOVED DE FOR AD 97-18-20 WITH 42.4 HRS. TSO. ON JUNE 29, 199 WAS COMPLETED AND THE PROPELLER INSTALLED ON JULY 2, 1999, ON APRIL 19, 2000 THE PROPELLER WAS REMOVED FROM TH ARCRAFT WITH 88.3 HRS. TSO. UPON OUR DISASSEMBLY OF THE PROPELLER WE FOUND CORROSION IN ONE OF THE BEARINGS ON SIDE OF THE PROPELLER, AND EXTREME CORROSION ON THE BEARING SUFFACES AND THE INNER SURFACE OF THE CLAMP ASSE BOTH OF THE BEARINGS AND THE ONE CLAMP REQUIRE REPLACEMENT. WITH CORROSION IN THE PROPELLER THIS BAD, I WOND INTIS PROPELLER COULD HAVE REMAINED IN SERVICE FOR ANOTHER 4 YEARS OVER THE MANUFACTURERS OVERTHAU TIMES.  ZLIN LYC SPRING  SPRING BROKEN 04/21/2002  (CAN) A STUDENT PILOT REPORTED TO MAINTENANCE THAT ON A GROUND RUN OF THE BURCKET THAT THE PROPELLER WOULD THAT THE PROPELLER WOULD THAT THE PROPELLER WOULD THAT THE PROPELER WOULD THAT THE PROPELER WOULD THAT THE PROPE PROPELER WOULD THAT THE PROPELER WOUL		ED. CLEANED FACEPLATE AND ALL	BUTTONS. BENCH CHI	ECK GOOD.		
INTERMITTENT P3 FAILURES WITH AMBER GOVERNOR CAUTION LIGHT COMING ON.  SNIAS TMECA ENGINE MALFUNCTIONED 05/16/2002 AS330B ARRIELIDI ARRIELIDI ARRIELIDI ARRIELIDI ARRIELIDI ARRIELIDI ARRIELIDI BEGINE TAKES SEVERAL ATTEMPTS TO START AFTER THE ENGINE IS RUN AND GETS WARMED UP. STARTS OK WHEN SNIAS ANTERNA CRACKED AROUND BOLT HOLES. SCRAPPED SNIAS ANTERNA CRACKED AROUND BOLT HOLES. SCRAPPED SNIAS SERVO LEAKING 05/16/2002 AS330B2 SC 5083 MAINROTOR HEEA079278 MAIN ROTOR SERVO LEAKING. UNIVAR LYC THE UNIVAR LYC THRUST LINK CORRODED 05/08/2002 (CAN) THE PROPELLER WAS OVERHAULED ON JULY 18, 1996, WAS REMOVED FOR AD 97-18-02 WITH 42.4 HRS. TSO. ON JUNE 29, 199 WAS COMPLETED AND THE PROPELLER WAS OVERHAULED ON JULY 2, 1999. ON APRIL 19, 2000 THE PROPELLER WAS REMOVED FROM TH AIRCRAFT WITH 88.3 HRS. TSO. UPON OUR DISASSEMBLY OF THE PROPELLER WE FOUND CORROSION IN ONE OF THE BEARINGS O SIDE OF THE PROPELLER, AND EXTREME CORROSION ON THE BEARINGS SUFFACES AND THE INNER SURFACE OF THE CLAMP ASSE BOTH OF THE BEARINGS AND THE ONE CLAMP REQUIRE REPLACEMENT. WITH CORROSION IN THE PROPELLER THIS BAJ, I WOND THIS PROPELLER COULD HAVE REMAINED IN SERVICE FOR ANOTHER 4 YEARS OVER THE MANUFACTURERS OVERHAUL TIMES. ZLIN LYC SPRING BROKEN ZLIN LYC SPRING BROKEN CA222L AEIO360A1B6 15306550012 PROP CONTROL CA202507022 (CAN) A STUDENT PILOT REPORTED TO MAINTENANCE THAT ON A GROUND RUN OF THE BRACKET AND THE PROPELLER WOUL CYCLE WHEN THE CONTROL WAS PULLED OUT TO PUT THE PROP INTO COARSE PITCH. INVESTIGATION FOUND THAT THE PROP C FLAT SPRINGSTHAT HOLD THE PROP CONTROL SYSTEM RIGID HAD BROKEN. THESE SPRINGS GO THROUGH MANY CYCLES AND B WHEN THEY ARE STRESSED. NEW SPRINGS WERE INSTALLED WITH NO STRESS BETWEEN THE BRACKET AND THE SUPPORT, AND FUNCTIONED PROPERLY ON ZLIN LYC SPRING BROKEN CA2221L AEIO360A1B6 SPRINGS WERE INSTALLED WITH NO STRESS BETWEEN THE BRACKET AND THE STREEM MAINTENANCE P WHEN THEY ARE STRESSED. NEW SPRINGS WERE INSTALLED WITH NO STRESS BETWEEN THE BRACKET AND THE SUPPORT, AND FUNCTIONED PROPERLY ON ZLIN LYC SPRING BROKEN						
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UNIVAR LYC THRUSTLINK CORRODED 05/08/2002 1083 O435C A0014B PROPELLER CA020510022 (CAN) THE PROPELLER WAS OVERHAULED ON JULY 18, 1996, WAS REMOVED FOR AD 97-18-02 WITH 42.4 HRS. TSO. ON JUNE 29, 199 WAS COMPLETED AND THE PROPELLER INSTALLED ON JULY 18, 1996, WAS REMOVED FOR AD 97-18-02 WITH 42.4 HRS. TSO. ON JUNE 29, 199 WAS COMPLETED AND THE PROPELLER INSTALLED ON JULY 2, 1999. ON APRIL 19, 2000 THE PROPELLER WAS REMOVED FROM THAIRCRAFT WITH 88.3 HRS. TSO. UPON OUR DISASSEMBLY OF THE PROPELLER WE FOUND CORROSION IN ONE OF THE BEARINGS OS SIDE OF THE PROPELLER, AND EXTREME CORROSION ON THE BEARING SURFACES AND THE INNER SURFACE OF THE CLAMP ASSEBOTH OF THE BEARINGS AND THE ONE CLAMP REQUIRE REPLACEMENT. WITH CORROSION IN THE PROPELLER THIS BAD, I WOND THIS PROPELLER COULD HAVE REMAINED IN SERVICE FOR ANOTHER 4 YEARS OVER THE MANUFACTURERS OVERHAUL TIMES. ZLIN LYC SPRING BROKEN 04/21/2002 Z242L AEIO360A1B6 1530650012 PROP CONTROL CA020507022 (CAN) A STUDENT PILOT REPORTED TO MAINTENANCE THAT ON A GROUND RUN OF THE AIRCRAFT THAT THE PROPELLER WOULL CYCLE WHEN THE CONTROL WAS PULLED OUT TO PUT THE PROP INTO COARSE PITCH. INVESTIGATION FOUND THAT THE PROP CFLAT SPRINGSTHAT HOLD THE PROP CONTROL SYSTEM RIGID HAD BROKEN. THESE SPRINGS GO THROUGH MANY CYCLES AND BWHEN THEY ARE STRESSED. NEW SPRINGS WERE INSTALLED WITH NO STRESS BETWEEN THE BRACKET AND THE SUPPORT, AND FUNCTIONED PROPERLY ON ZLIN LYC SPRING BROKEN 04/22/2002 Z242L AEIO360A1B6 Z4424170001 NLG STEERING CA020508003 (CAN) UPON TAXI A STUDENT PILOT NOTICED AN EXCESSIVE AMOUNT OF PLAY IN THE NOSE STEERING SYSTEM. MAINTENANCE VOTIFIED AND THE RT STEERING SPRING WAS FOUND TO BE BROKEN. THE SPRING WAS REPLACED USING THE MINIMUM SPACING PRELOAD TENSION. STUDENT REMINDED OF GETTING THE AIRCRAFT MOVING BEFORE TURNING THE NOSE WHEEL TO REDUCE STHE FINOSE GEAR STEERING SPRING.  Z4242170001 NLG STEERING THE NOSE WHEEL TO REDUCE STHE PROSE GEAR STEERING SPRING WAS FEDIAD TO BE BROKEN. THE SPRING WAS REPLACED USING THE MINIMUM SPACING PRELOAD TENSION. STUDENT REMINDED	AS350B2					
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